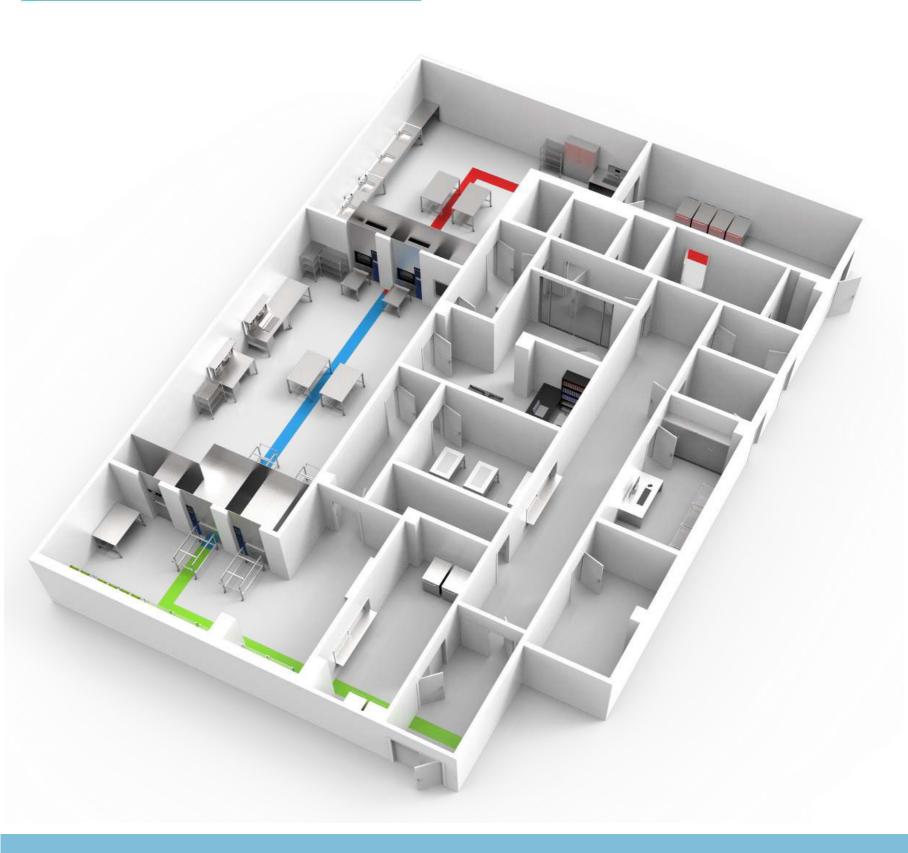
$Euphoria^{\circ}$



CENTRAL STERILISATION UNIT PROJECTS



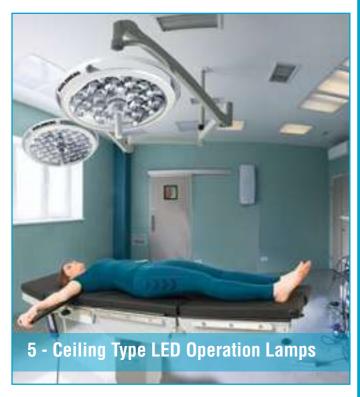
















INDEX

| ' | I. Central Sterilization Unit II. Sterilisation Cycle III. Sterilisation Process IV. Our Laboratory V. Tracking and Documentation System of Central Sterilization Unit | U9 - 2t |
|---|--|---------|
| 2 | Sterilization Devices I. Steam Sterilizer II. Sterilizator Model Features III. Large Capacity Industrial Type Sterilizer for Pharmaceutical and Medicinal Applications IV. Hydrogen Peroxide (H ₂ O ₂) Gas Plasma Sterilizi V. Hydrogen Peroxide (H ₂ O ₂) Gas Plasma Sterilizi Model Features | |
| 3 | Washers - Disinfector Drying Device I. Washer - Disinfector Drying Devices II. Washer - Disinfector Drying Devices Small III. Washer - Disinfector Drying Devices Middle IV. Washer - Disinfector Drying Devices Large V. Washer - Disinfector Drying Devices Car and Additional Units | 42 - 51 |
| 4 | Operation Tables I. STR Series Operation Tables and Accessories II. Pozitions of the STR operation Table III. GOLDBERG New Generation Operation Table IV. Pozitions of the Operation Table V. Gynecological, Urological and Delivery Tables | 52- 73 |
| 5 | Ceiling Type LED Operation Lamps I. Goldberg Ceiling Type LED Operation Lamps II. Examination Lamp | 74 - 77 |
| 6 | Consumables I. Surgical Sutures II. Strilization and Tyvek Bobin III. Disinfectants and Washer-Disinfector Solutions IV. Hydrogen Peroxide (H ₂ O ₂) Cartridges | 78 - 79 |
| 7 | Auxiliary Central Sterilization Units Equipment I. Air and Water Gun II. Ultrasonic Washer III. Packing Solutions IV. RO Water Purifying System | 80 - 81 |
| 8 | Stainless Steel Equipments | 82 - 91 |
| 9 | Medical Waste Management Solutions | 92 - 93 |
| | | |



1 - Central Sterilization Unit

- I. Central Sterilization Unit
- II. Sterilisation Cycle
- III. Sterilisation Process
- IV. Our Laboratory
- V. Tracking and Documentation System of Central Sterilization Unit







I. Central Sterilization Unit

Euphoria provides turn key services, including designing, installing and commissioning central sterilization units for hospitals ranging from small to large scale..













Euphoria provides services for designing, installing and commissioning of central sterilization unit for:

- University hospitals,
- Training and research hospitals,
- Government hospitals
- · Military hospitals,
- Private hospital and health instutions
- Veterinary sector and medicine sector

The major aim of Euphoria is to manufacture medical devices and equipments according to our customers' needs and expectations.

Euphoria has successfully completed many turn key projects for central sterilization units in the last twentythree years.

Our activities are as follows:

- Project planning and preparing scaled blue prints,
- Consulting customers for optimum solutions in terms of area allocation and installation of sterilization units,
- Choosing appropriate equipment and materials.
- Installing hygienic air-conditioning system and organizing the dirty-clean areas,
- Buildin g Central Sterilization Units together with the water, electricity and drain system connections.
- Setting up units for collecting, separating, washing and decontaminating dirtymaterials.
- Building units for preparing, packing, and wrapping, materials to be sterilized.
- Building storage, distribution and quality control units for the materials to be sterilized.
- Providing services for installation, testing, validation, and commissioning of washing and disinfection equipment.











III. STERILISATION PROCESS



Decontamination:

A process which organic substances are removed from the surface with physical and/ or chemical methods, before a sterilisation and disinfection processes, to make it safe for a person to touch the materials.



Disinfection:

It is process which substances or micro organisms (bacteria spors excluded) are cleaned or reproduction is stopped. Bacteria spors and micro bacterias are categorized in low, medium and high disindection according to their effecting levels.











IV. Our Laboratory







ALL OUR PRODUCT TESTS AND RD STUDIES ARE MADE METICULOUSLY IN OUR LABORATORIES AND ANALYZED AFTERWARDS.









V. Tracking and Documentation System of Central Sterilization Unit

With the Steril Net Barcode System;

- Each surgical instrument is QR coded and reliably tracked
- Coding system enables the hospital staff to prepare the surgical instruments with high presicion
- An ID card is prepared for each instrument
- SterilNET software enables the hospital staff to use all the surgical instruments with a high degree of efficiency

Il surgical instruments can be barcoded and inventorized with the help of SterilNET software system;

All stages of sterilization process can be monitored by means of coding system,

Computer Aided central sterilization unit and sterilization tracking/monitoring system are assumed to be the right choice for the total quality management,

SterilNET enables the hospital staff to follow up all sterilization process easily,

SterilNET is used to set up a detailed product database of other manufacturers,

When a surgical instrument is barcode marked, it is automatically included in the inventory. This allows hospital staff to control the inventory efficiently.



Why Steril Net?

- User friendly and easily adaptable,
- Helps to keep the regular inventory of instruments,
- Provides statistical information regarding surgical instruments,
- Reminds maintenance schedule,
- Provides package tracking,
- Tracks lost and damaged surgical instruments,
- Follows up consigned company sets,
- Provides customised reports,
- Barcodes the surgical instruments without causing any damage,
- Ensures the traceability of surgical instruments,
- Keeps the record of the usage frequency of the surgical instruments,
- Keeps the record of the sterilization frequency of the surgical instruments,
- Tracks the parts inventory of the equipments.
- Tracks the customizing of the surgical sets for doctors and medical departments,
- Tracks the packaged sets,
- Tracks the maintenance frequency of the surgical instruments,
- Keeps records and reports of the medical staff of the Central Sterilization Unit,
- Prepares reports of the sterilization units periodically on daily, monthly and yearly basis,



If you use the system;

- You should not worry about the programme, not meeting your needs,
- Because the system is very flexible and it can be integrated into your institutional organization,
- You can prepare the inventory of your surgical instruments and manage them easily,
- You can follow up all sterilization process easily,
- you can manage the sterilization unit whithin the frame of quality management system.

Sterilization Cycle







2 - Sterilization Devices

- II. Sterilizator Model Features
- III. Large Capacity Industrial Type Sterilizer for Pharmaceutical and Medicinal Applications
- IV. Hydrogen Peroxide (H_2O_2) Gas Plasma Steriliziers V. Hydrogen Peroxide (H_2O_2) Gas Plasma Steriliziers Model Features



I. Steam Sterilizer

ERY T steam sterilizers are designed to sterilize;

- Textiles,
- Surgical and dressing instruments,
- Rubber and glass materials,
- Bottled liquids.



High Quality of Standarts

Euphoria Provides all sterilizers in accordance with very strict quality and safety standards such as Medical Device Directive (93/42/EEC), Pressure Equipment Directive (97/23/EEC), Standard (EN285),Steam Sterilizer Electromagnetic Compatibility (EMC) Directive and the Low Voltage Directive (LVD)



Reliable and Robust production

Exterior Body and Frame: The body and the framework are constructed of electrostatic powder painted structural steel and stainless steel with AISI 304 grade respectively. Despite the compact modular design, all components are mounted on this framework and are easily accessible for maintenance from either sides.

Sterilization Cell:

Consturcted with a chamber and jacket, made of AISI 316L and AISI 316 Ti grade stainless steel with the thickness of 6 mm. and 2.5 mm, respectively.

Doors and panels:

Constructed with AISI 304 grade stainless steel, both single and double models with sliding types is available. All sterilizers are fitted with AISI 304 grade stainless steel panels. Special panel designs can be arranged upon request.

Piping System:

Pipes and fittings are made of stainless steel AISI 304 and MS 58 brass. Electrical and pneumatically oprerated valves are available.

Door Options

Steam Sterilizers can be manufactured with single or double doors (septic-aseptic) options.

The model with vertically sliding doors offered, fully automatic or manually operated.

All doors have the security system to prevent opening the doors or beginnig the process.

- If one of the double doors left accidentially open,
- If one sterilization chamber is under pressure,
- If one temperature of the sterilization chamber exceeded the level of safety limits.
- If there is a difficulty or blockage to open and close the sliding door, the process is terminated automatically.

Hot and Clean Steam

All sterilizers are heated with wet and saturated steam. Steam can be supplied, either the hospital's central steam system or built-in electrical steam generator. Steam supply is controlled automaticaly. Purified and emineralized water should be used to provide clean steam.





"Control System is designed to allow easy usage and can be programmed via a keypad, displayed on the touch screen, that enables the user to select any programme needed"

STERILIZATION, SHOULDN'T BE ACCEPTED AS A SIMPLE PROCESS. IT MUST BE EVALUATED LIKE PPROVIDING CONVENIENT MATERIALS FOR MEDICAL PURPOSES AND AS A PRODUCT PROCESS.

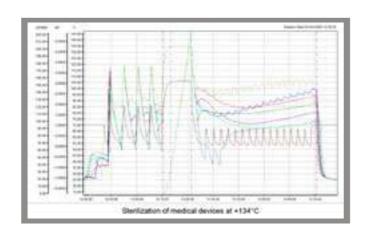


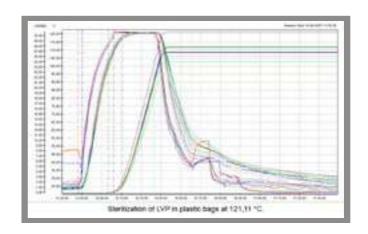






Autoclave device validation testing graphics







GOLDBERG®







Laboratory Type Vertical Autoclave 75 liter model has two types as with vacuum and non-vacuum





II. Sterilizator Model Features

| | | MODELS | | | DOOR DIMENSIONS | | | PACKING | | VOLUME AND POWER | | | | WEIGHTS | | STU CAPACITY BY STEAM STERILIZER MODELS | | | |
|--------------------|----------|---------------|-------------|-----------|--------------------|------------|------------|------------|------------|------------------|------------|--------------------|---------------------------------------|--------------------|--------------------|--|----------------|----------------|--------------|
| CHAMBER DIMENSIONS | MODELS | D□AMETER (mm) | HE□GHT (mm) | (шш) НД□М | DEPTH (mm) | (шш) М□ОТН | DEPTH (mm) | HE□GHT(mm) | (шш) М□ОТН | DEPTH (mm) | HE□GHT(mm) | BOILER VOLUME (It) | POWER GENERATOR (3 phase / 400 AC) | INSTALLED CAPACITY | GENERATOR CAPAC□TY | DEVICES (kg) | PACKAG□NG (kg) | DEVICE VOLUMES | STU CAPACITY |
| 100 lt | STR 4407 | - | 400 | 400 | 650 | 810 | 1020 | 1650 | 826 | 1036 | 1066 | 100 | 20 kW | 30 kW | 60 lt | 480 | 650 | 100 lt | 1 |
| 160 lt | STR 4410 | 1 | 400 | 650 | 650 | 810 | 1020 | 1900 | 826 | 1036 | 1916 | 160 | 20 kW | 30 kW | 60 It | 610 | 780 | 160 lt | 2 |
| 250 lt | STR 5510 | - | 500 | 500 | 1000 | 660 | 1370 | 2000 | 686 | 1386 | 2016 | 250 | 30 kW | 40 kW | 60 lt. | 750 | 900 | 250 lt | - |
| 300 It | STR 5512 | - | 670 | 700 | 710 | 1080 | 1080 | 1950 | 1096 | 1096 | 1966 | 300 | 30 kW | 40 kW | 60 lt | 890 | 1070 | 300 lt | 4 |
| 422 lt | STR 6610 | - | 670 | 700 | 1000 | 1080 | 1370 | 1950 | 1096 | 1386 | 1966 | 422 | 40 kW | 50 kW | 70 lt | 1050 | 1250 | 422 lt | 6 |
| 550 lt | STR 6613 | - | 670 | 700 | 1300 | 1080 | 1670 | 1950 | 1096 | 1686 | 1966 | 550 | 40 kW | 50 kW | 70 lt | 1110 | 1290 | 550 lt | 8 |
| 750 lt | STR 7712 | - | 670 | 700 | 1600 | 1080 | 1970 | 1950 | 1096 | 1986 | 1966 | 750 | 50 kW | 60 kW | 70 lt | 1310 | 1510 | 750 lt | 10 |
| 900 lt | STR 7715 | - | 670 | 700 | 1950 | 1080 | 2320 | 1950 | 1096 | 2336 | 1966 | 900 | 60 kW | 70 kW | 70 lt | 1520 | 1720 | 900 lt | 12 |
| 1000 It | STR 7717 | - | 750 | 750 | 1800 | 1290 | 2170 | 2040 | 1306 | 2186 | 2056 | 1000 | 60 kW | 70 kW | 70 lt | 1520 | 1720 | 1000 lt | 12 |
| 2000 It | STR 2000 | - | 1230 | 1112 | 1450 | 2990 | 1840 | 2300 | 3006 | 1856 | 2316 | 2000 | 100 kW | 120 kW | 100 lt | 2800 | 3200 | 2000 lt | - |
| 75 It | STR 75 | 400 | - | - | 600 | 880 | 605 | 1000 | 896 | 621 | 1016 | 75 | 7,5 kW | 20 kW | 16 lt | 175 | 225 | 75 lt | - |
| 75 It | STR 75V | 400 | - | - | 600 | 1055 | 620 | 1015 | 1071 | 636 | 1031 | 75 | 7,5 kW | 20 kW | 16 lt | 175 | 240 | 75 lt | - |

CHAMBER TEST RESULTS
Cember Test Pressure 7 Bar
Cember Test Tempperature 150 °C
Cember Operating Pressure 2.8 Bar
Chamber Operating Temperature 140 °C

| Generator Test Pressure | 7 bar |
|-----------------------------|--------|
| Generator Test | 160 °C |
| Generator Operaing Pressure | 3 bar |
| Generator Operaing | 150°C |

"Steam Sterilizers, are equipped with an electronic pressure transducer to maintain the desired pressure values against the ambient pressure variations"



Autoclave Cars





Standart

Optional



III. Large Capacity Industrial Type Sterilizer for Pharmaceutical and Medicinal Applications

"High performance and technology to meet the customer demands"



"1000 lt, 2000 lt, 3000 lt and 5000 lt chamber capacity equipment options can be manufactured upon request"



GOLDBERG®

CHAMBER DIMENSIONS

| MODELS STR 2000 | | | | |
|---------------------|------|--|--|--|
| Chamber Volume (It) | 2000 | | | |
| Diameter (mm) | - | | | |
| Height (mm) | 1112 | | | |
| Width (mm) | 1230 | | | |
| Depth (mm) | 1450 | | | |

SINGLE SLIDING DOOR DIMENSIONS

| MODELS STR 2000 | | | | |
|-----------------|------|--|--|--|
| Height (mm) | 2990 | | | |
| Width (mm) | 2300 | | | |
| Depth (mm) | 1840 | | | |

DOUBLE SLIDING DOOR DIMENSIONS

| MODELS STR 2000 | | | | |
|-----------------|------|--|--|--|
| Height (mm) | 3006 | | | |
| Width (mm) | 2316 | | | |
| Depth (mm) | 1856 | | | |

VOLUME AND POWER

| MODELS STR 2000 | | | | | |
|--|------|--|--|--|--|
| Chamber Volume (It) | 2000 | | | | |
| Generator Power (3 Phase / 400 ±10 V AC) | 100 | | | | |
| Total Power (kW) | 120 | | | | |
| Generator Volume | 100 | | | | |

WEIGHTS

| MODELS STR 2000 | | | | |
|-----------------|------|--|--|--|
| Equipment (kg) | 2800 | | | |
| Packing (kg) | 3200 | | | |

CHAMBER LOAD CAPACITY

| MODELS STR 2000 | | | | | |
|-----------------------|------|--|--|--|--|
| Chamber Capacity (It) | 2000 | | | | |
| STU Capacity (It) | 24 | | | | |



IV. Hydrogen Peroxide (H_2O_2) Gas Plasma Steriliziers







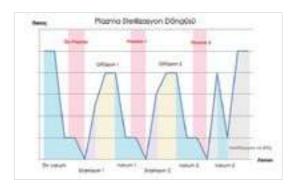




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- Sterilization process is initiated with prevacuuming,
- Plasma is generated in the sterilization chamber,
- After the injection of H₂O₂, plasma is created and the H₂O₂ vapor provides an effective sterilization in the chamber
- ► Above-mentioned stages are repeated as part of the cycle to obtain a sterilization with 10-6 SAL
- At the end of the cycle, H₂O₂ vapor turns into pure water and oxygen such that toxic residuals do not remain on the sterilized material.
- For the next sterilization cycle, the chamber is flushed with dry air.







GOLDBERG®

V. Hydrogen Peroxide (H₂O₂) Gas Plasma Steriliziers Model Features

TECHNICAL SPECIFICATIONS

| DIMENSIONS | TSP 80 | TSP 120 | TSP 135 | TSP 160 | TSP 200 |
|---------------------------------|-----------|-----------|-----------|---------|---------|
| | | DIMENS | ONS | | |
| WIDTH (mm) | 535 | 800 | 735 | 800 | 1000 |
| HEIGHT (mm) | 1170 | 1750 | 1775 | 1750 | 2190 |
| DEPTH (mm) | 890 | 1330 | 995 | 1530 | 1910 |
| WEIGHT (mm) | 330 | 350 | 380 | 400 | 440 |
| | PRISM | ATIC CHAI | IBER DEVI | CE | |
| WIDTH (mm) | 400 | 400 | 453 | 450 | 450 |
| HEIGHT (mm) | 400 | 400 | 400 | 450 | 450 |
| DEPTH (mm) | 500 | 750 | 700 | 790 | 987 |
| EFECTIVE VOLUME (Lt) | 80 | 120 | 135 | 160 | 200 |
| | CYLINDIRI | CAL CHAM | BER DIMEN | ISIONS | |
| $DIAMETER \ \varnothing \ (mm)$ | 400 | 400 | 400 | 450 | 450 |
| DEPTH (mm) | 636 | 955 | 1073 | 1000 | 1250 |
| EFFECTIVE USEABLE VOLUME (Lt) | 80 | 120 | 135 | 160 | 200 |

STANDART PROGRAMS

Program 1 (Short Program)
Program 2 (Standart Program)

Surface sterilization

Sterilization for cavities and short and thick lumens

Program 3 (Advanced Program) Sterilization for long and narrow lumens and adherent surfaces

Hydrogen Peroxide (H₂O₂) Gas Cartriges



Touch screen; simple and easy to use; single or double door options

Preparing the heat and moisture-sensitive instruments to be used under dry conditions. Prevents the corrosion caused by moisture, extending life span of the instruments. Reduced the maintenance cost.

GOLDBERG series plasma sterilization system can be monitored remotely with the help of independent monitoring system to review the cycle parameters. The system is an ideal alternative for rapid and safe sterilization for the instruments requiring low-temperature sterilization.

Cylindrical or prismatic sterilization chamber provides a large volume with short (45 minutes) and long (70 minutes) cycle options that enable the user to operate the system fast and effectively. Sterilized instruments are dried and packed with 10-6 Sterility Assurance Level (SAL).

Electrical wiring is sufficient to install the GOLDBERG Series devices. Water connection, ventilation, (and subsequent substructure) are not required. Only one square-meter area is sufficient for installation and the device can be moved with the help of its castor system.

System works with (non-toxic) hydrogen peroxide solution cassette and at the end of the sterilization process hydrogen peroxide is converted into oxygen and water vapor. It is absolutely safe for the health care staff, patients, and environment.

Device is used for metal or nonmetal medical and electronic materials excluding the ones not resistant to humidity and high temperature such as copper and cellulose based materials.

Door sealing is provided by an o-ring.

The sterilization process is controlled by a microprocessor.

Built-in printer is available.

Display shows all cycles and maintenance time.

Audible and/or visual alarms with print-out are issued to signal machine faults/malfunctions.

Emergency system prevents the opening of the doors until the cycle is over.

Pressure is controlled electronically by means of a builtin pressure transducer.

Intake air is cleaned via a HEPA filter.

The injected amount of hydrogen peroxide is constant, being independent of the volume and quantity of the materials to be sterilized.

Operation Voltage/ Frequency: 220-380 V / 50 Hz.







I. Washer - Disinfector Drying Devices



Washer disinfectors are designed to be utilized in operating theaters and anesthesia units where the performance expectations (i.e. capacity, volume, operational flexibility) are significantly high.

It provides ultimate solution for high quality washing, disinfection and drying of surgical materials, hoses, bottles and glass materials etc.

Washer disinfector ensures that all material will be cleaned thoroughly and homogeneously.

Ergonomic design and display with clear-cut instructions provide washer disinfector uninterrupted operation.

Easy to use device, with operating parameters monitored and recorded via an externally connected.

General Specifications;

- The 5-level apparatus offers a large washing capacity for general purpose materials.
- With an additional apparatus for cannular and indented structures; the 4 level apparatus accommodates a washing capacity for approximately 300 pieces of general-purpose materials.
- The 3-level apparatus allows cleaning of anesthesia accessories.
- Washing apparatus can accommodate a maximum of 4 large material containers.
- The 4 level washing apparatus comes with an accessory to wash surgical trays and general purpose materials.
- The 4 level apparatus can wash 72 cannular or indented structures along with 300 pieces general purpose materials.

GOLDBERG®





II. Washer - Disinfector Drying Devices Small

Model: GOLDBERG GY150
Small Capacity Washer DisinfectorsUnder counter 150 L Capacity

STANDART FEATURES

- 10+20 programs and touchscreen
- Washing chamber 150 L, 8 DIN 1/1 baskets
- Chamber dimensions (WxHxD): mm 540 x 510 x 550
- Device dimensions (WxHxD): mm 900 x 840 x 630
- Horizontal opening stainless steel door
- Standard Power: 230 V / 1L + N + PE / 50 Hz
- Electrical Power: 4,5 kW
- Cabinet for storing chemical bottles
- 2 + 2 (optional) flowmeters and dosing pump for chemicals with liquid level sensor
- Washing Pump: 400 L / min
- Pump pressure control
- Washing chamber heaters: 3 kW
- Electrical drying: 200 m³ /h (without resisting pressure)
- Drying heaters: 2 kW
- Pre filter F-Class
- Hepa filter H14
- Control sensor for HEPA drying filter
- Port for external temperature sensor
- Automatic recognition sensor for loading carts
- RS 232 connection port
- Internal steam condenser (optional)
- Internal water softener (optional)
- Internal printer (optional)





III. Washer - Disinfector Drying Devices Middle

Model: GOLDBERG GY225
Small Capacity Washer Disinfectors Manual Door 225 L Capacity

STANDART

- 10+40 programs and touchscreen
- Washing chamber 225 L, 8 DIN 1/1 baskets
- Chamber dimensions (WxHxD): mm 560 x 600 x 620
- Device dimensions (WxHxD): mm 675 x 1850 x 700
- Horizontal opening, heat proof, tempered glass door(s) with stainless steel frame
- Standard Power: 400 V / 3L + N + PE / 50 Hz
- Electrical Power: 12 kW / 20 A
- 2 + 2 (optional) flowmeters and dosing pump for chemicals with liquid level sensor
- Washing Pump: 600 L / min
- Pump pressure control
- Washing chamber heaters: 10 kW
- Electrical drying: 200 m3 /h (without resisting pressure)
- Drying heaters: 10 kW
- Pre filter F-Class
- Hepa filter H14
- Control sensor for HEPA drying filter
- Port for external temperature sensor
- Valve for water sampling
- Automatic recognition sensor for loading carts
- Chamber lightening
- RS 232 connection / ethernet connection port
- Internal steam condenser (optional)
- Internal water softener (optional)
- Internal printer (optional)





IV. Washer - Disinfector Drying Devices Large

Model: GOLDBERG GY290

Medium Capacity Washer Disinfectors -

Manual Door- Automatic Door 290 L Capacity

STANDART FEATURES

- 10+90 programs and touchscreen
- Washing chamber 290 L, 10 DIN 1/1 baskets
- Chamber dimensions (WxHxD): mm 620 x 670 x 670
- Device dimensions (WxHxD): mm 816 x 2150 x 900
- Horizontal opening, heat proof, tempered glass door(s)
- with stainless steel frame manual door
- Vertical opening, heat proof, tempered glass door(s) with stainless steel frame – automatic door
- Standard Power: 400 V / 3L + N + PE / 50 Hz
- Electrical Power: 12 kW / 20 A
- 2 + 2 (optional) flowmeters and dosing pump for chemicals with I iguid level sensor
- Washing Pump: 700 L / min
- Pump pressure control
- Washing chamber heaters: 10 kW
- Electrical drying: 400 m3 /h (without resisting pressure)
- Drying heaters: 10 kW
- Pre filter F-Class
- Hepa filter H14
- Control sensor for HEPA drying filter
- Port for external temperature sensor
- Valve for water sampling
- Automatic recognition sensor for loading carts
- Chamber lightening
- RS 232 connection / ethernet connection port
- Internal steam condenser (optional)
- Internal water softener (optional)
- Internal printer (optional)





IV. Washer - Disinfector Drying Devices Large

Model: GOLDBERG GY 360

Large Capacity Washer-Disinfectors

360 L Capacity

STANDART FEATURES

- 10+90 programs and touchscreen
- Washing chamber 360 L, 15 DIN 1/1 baskets
- Chamber dimensions (WxHxD): mm 660 x 720 x 750
- Device dimensions (WxHxD): mm 1000 x 2150 x 950
- Vertical opening, heat proof, tempered glass door(s)
- Standard Power: 400 V / 3L + N + PE / 50 Hz
- Electrical Power: 12 kW / 20 A
- 2 + 2 (optional) flowmeters and dosing pump for chemicals with liquid level sensor
- Washing Pump: 800 L / min
- Pump pressure control
- Washing chamber heaters: 10 kW
- Electrical drying: 400 m3 /h (without resisting pressure)
- Drying heaters: 7,5 kW
- Pre filter F-Class
- Hepa filter H14
- Control sensor for HEPA drying filter
- Port for external temperature sensor
- Valve for water sampling
- Automatic recognition sensor for loading carts
- Chamber lightening
- RS 232 connection / ethernet connection port
- Internal steam condenser (optional)
- Internal water softener (optional)
- Internal printer (optional)





V. Washer - Disinfector Drying Devices Car and Additional Units



STANDART









OPTIONAL

For other accessories, get in contact with our company!





4 - Operation Tables

- . STR Series Operation Tables and Accessories
- II. Pozitions of the STR operation Table
- III. GOLDBERG New Generation Operation Table
- IV. Pozitions of the Operation Table
- V. Gynecological, Urological and Delivery Tables



I. STR Series Operation Tables and Accessories

Euphoria operating tables; are designed for General Surgery, Urological, Gynecological, Orthopedical, Ophthalmological, Neurosurgical, ENT (Ear,nose and throat), cardiological operations.

Table top tray, the head, the two-piece back, hip and leg portion including a two-part consists of six chapters. The table, up and down, the back part of Trendelenburg, reverse Trendelenburg, right - left hand control with the help of the lateral movements of the moving wire electro - hydraulic system.

Manually moving the head and foot part of the request may be extended up to 5 cm table height. Can be remove if you want.

Operating table (General purpose)

2 piece foot section can be moved 90 degrees down,180 degree left and right, 30 degree up. The base platform and body are covered with stainless steel telescopic panels which are protected against liquidindifusion from outside. These panels are removable. Table top is covered with antistatic and antibacterial cushions with the thickness of 5 cm or a 2-layer viscoelastic polyurethane cushion with the thickness of 8 cm. These pads are removable and easily cleanable. The table is suitable for placing C arm X-ray device and table top is X-ray permeable. Film cassettes in several sizes can be placed from head and foot sections for various patient positions.

Accessories can be placed easily with the help of a stainless steel rail system which allows the user to add any accessories without removing the others. The rail system are fixed on the both sides of the table longitudinally.

The base of the table is designed in the form of a T-shape to help the surgon to get closer to the patient as much as possible. The table has four independent swivel castors. There is a brake controlled by a foot pedal or an elecro-hydraulic system. Carrying capacity of the table is 350 kg, also it should not vibrate or wobble while providing a stable and well-balanced operation. The table is protected against electro static discharges by insulation and grounding the chassis to ensure the safety of the patient as well as the doctor.



Optional Features:

- · Interchangable head and leg sections.
- In order to increase the active area of the C-arm scoppy ,single piece leg section can be attached to head and vice versa.
- Sliding back and forth movements ranges 30 cm. (Standard feature of model STR 2000F)
- 12 cm height adjustable manual or electro-hydraulic kidney elevator system.
- Electro-hydraulic brake system.
- Table can rotate 360 degrees on its axes.
- Special clamping system is available to hold accessories in place on the rails
- · Visco-elastic cushion.
- · Two-piece back rest.
- Safety system on the hand-held control unit to prevent misusage.



Accessories

Standart Accessories

| STR 127: Polyurethane Cushion Set | 1 Piece | STR 107 : Body straps | 1 Piece |
|-----------------------------------|---------|----------------------------|---------|
| STR 105: Arm support | 2 Piece | STR 101 : IV pole | 1 Piece |
| STR 104: Shoulder support | 2 Piece | STR 102 : Anesthesia Frame | 1 Piece |
| STR 108: Knee crutches | 2 Piece | STR 103 : Waste bowl | 1 Piece |
| STR 106: Body supports | 2 Piece | STR 129 : Hand control | 1 Piece |
| STR 120 Arm straps | 2 Piece | STR 109 : Accessory clamp | 8 Piece |
| STR 110: Accessory clamp | 2 Piece | STR 121 : Leg straps | 2 Piece |

Optional Accessories

| STR 118: One piece leg section | STR 112: Orthopedic traction system |
|--|--------------------------------------|
| STR 111: Spiked head caption connection for sitting position | STR 113: Wrist belt |
| STR 119: Rail System for Accessories | STR 124: Accessory table |
| STR 117: Proctology Support | STR 126: Visco - elastic cushion set |
| STR 114: "U" Type head support | STR 114: X-Ray cassette holder |
| STR 115: Kidney elevator | STR 122: Silicon head support |
| STR 123: Silicon body support | STR 128: Radiographic bench top set |
| STR 125: Shoulder Arthroscopy Set | |

Technical Features

Carrying Capacity Net Weight 350 kg 270 kg **Gross Weight** 350 kg

700x900x1200 mm (wxhxd) 230 V/50-60 Hz Package Dimensions

Supply Voltage 230 V/50
Battery Capacity 12 A/h
Battery Charge Voltage 30 VDC

Battery Type Dry and maintenance free

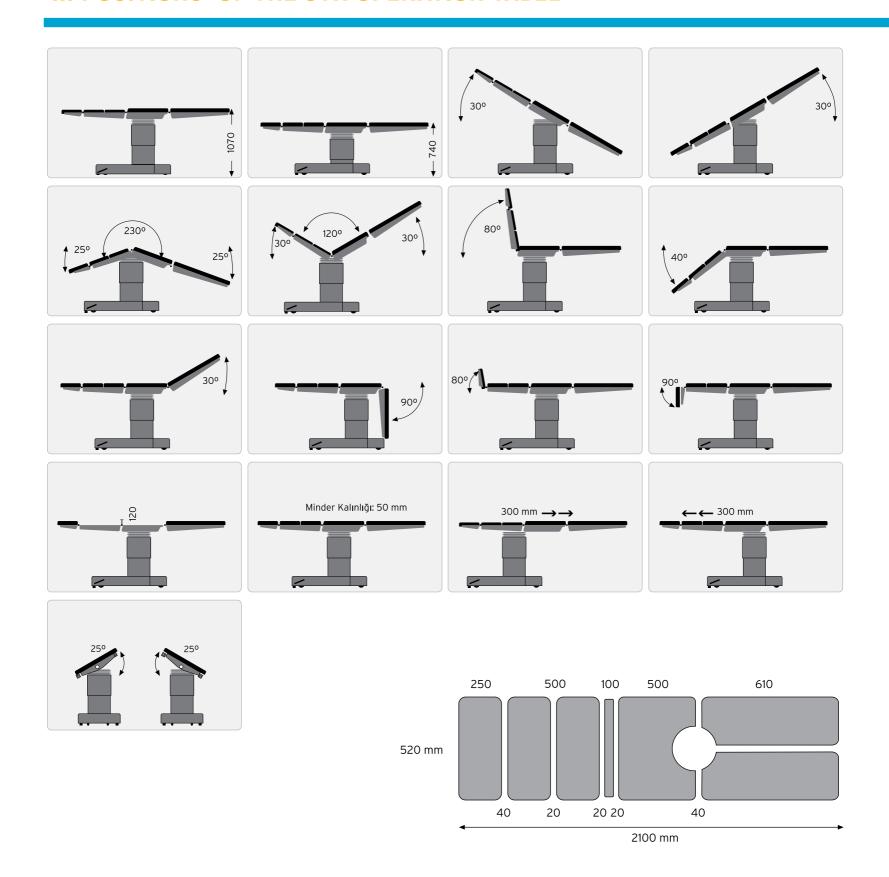
STR 2000F model has the following additional technical features when it is compared with model STR 2000:

- Battery durability 30-60 minutes (200 Movements)
 Secondary control panel on the body.
 30 cm. of sliding back and forth movements





II. POSITIONS OF THE STR OPERATION TABLE





Operating Tables are designed to use in General Surgery, Urological, Gynecological, Orthopedical, Ophthalmological, Neurosurgical, ENT (Ear,nose and throat), cardiological operations.





III. **GOLDBERG** New Generation Operation Table

- GOLDBERG Operating Tables are designed to use in general surgery, Urological, Gynecological, Orthopedical, Ophthalmological, Neurosurgical, ENT (Ear, nose and throat), cardiological operations.
- · In addition to the Standard Features:
- Zero Positioning (except head and foot sections)
- Saving up to four frequently used positions
- Fixing the table to floor with four electrohydraulic pistons guided by hand-held or auxillary control panel. Besides manual brakes unloading feature.
- Prevent the movements without fixing the pistons to the floor.
- Unlocking the brake-system manually.
- Single button command of flex and reflex movements on the hand-held control.
- Display of table positioning on the LCD screen of hand-held control.
- Back lighting of positioning buttons of hand-held control.
- Interchangeable head and foot sections.
- Height adjustment from 550 mm to 1025mm (without cushion) to allowing surgeon to operate while sitting.
- Safety lock on the hand-held control. (Optional)
- Stand-by feature while the table is not in use and overlap and collision sensor feature. (Optional)
- **GOLDBERG** Operating Tables up to 45 cm horizontal sliding feature. (Optional)
- GOLDBERG Operating Tables leg parts can be moved electrohydroaulically 110 degrees down - 80 degrees up by means of hand remote and column control panel. (Optional)



















GOLDBERG®















66 High Mobility 99















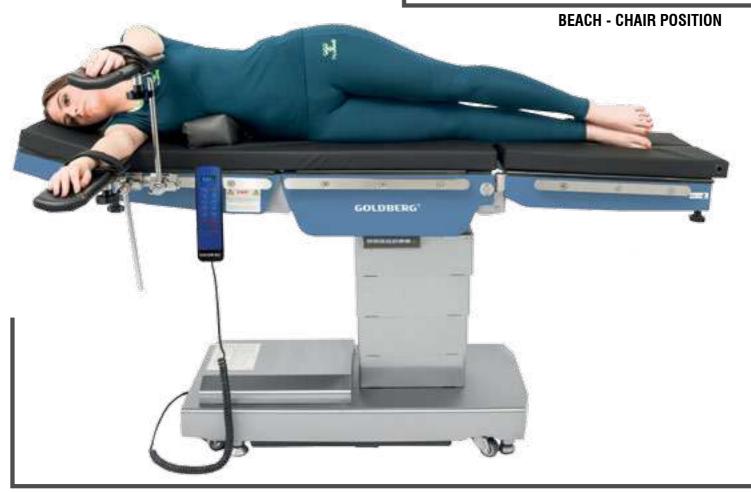


IV. GOLDBERG POSITIONS OF THE OPERATION TABLE



N.N.T. SURGERY







GOLDBERG®



SIPNAL INTERVENTION IN PRONE POSITION



BEACH - CHAIR POSITION







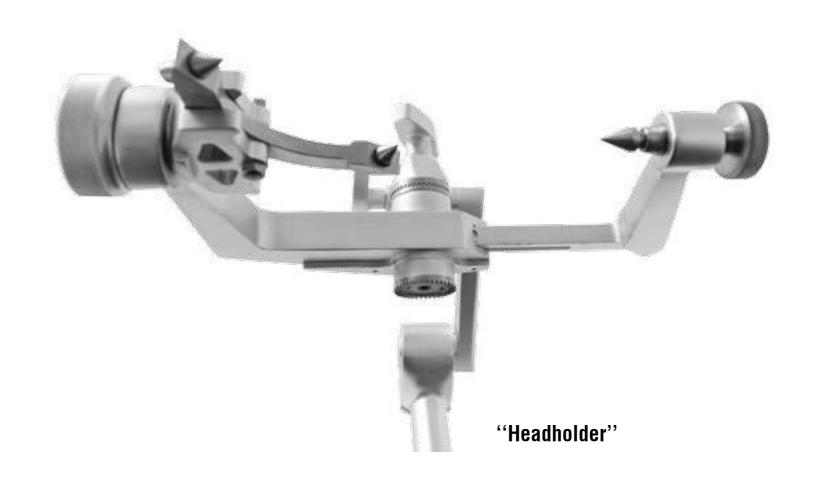
GOLDBERG New Generation Operating Table Accessories





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GOLDBERG®





Accessories Standart Accessories

| GOLDBERG 127: Polyurethane Cushion Set | 1 Set | GOLDBERG 107: Body straps | 1 Piece |
|---|---------|--------------------------------|---------|
| GOLDBERG 105: Arm support | 2 Piece | GOLDBERG 101: IV pole | 1 Piece |
| GOLDBERG 104: Shoulder support | 2 Piece | GOLDBERG 102: Anesthesia Frame | 1 Piece |
| GOLDBERG 108: Knee crutches | 2 Piece | GOLDBERG 103: Waste bowl | 1 Piece |
| GOLDBERG 106: Body supports | 2 Piece | GOLDBERG 129: Hand control | 1 Piece |
| GOLDBERG 120 Arm straps | 2 Piece | GOLDBERG 109: Accessory clamp | 8 Piece |
| GOLDBERG 110: Accessory clamp | 2 Piece | GOLDBERG 121: Leg straps | 2 Piece |

Optional Accessories

| ! | |
|---|---|
| GOLDBERG 118: One piece leg section | GOLDBERG 112: Orthopedic traction system |
| GOLDBERG 111: Spiked head caption connection for sitting position | GOLDBERG 113: Wrist belt |
| GOLDBERG 119: Rail System for Accessories | GOLDBERG 124: Accessory table |
| GOLDBERG 117: Proctology Support | GOLDBERG 126: Visco - elastic cushion set |
| GOLDBERG 114: "U" Type head support | GOLDBERG 114: X-Ray cassette holder |
| GOLDBERG 115: Kidney elevator | GOLDBERG 122: Silicon head support |
| GOLDBERG 123: Silicon body support | GOLDBERG 128: Radiographic bench top set |
| GOLDBERG 125: Shoulder Arthroscopy Set | |





TRACTION SET





V. Gynecological, Urological and Delivery Tables

Euphoria gynecological and urological tables are designed for gynecological and urological examinations and interventions. Wide range of application areas are offered by their ergonomic structure and various types of accessories.

Euphoria gynecological and urological tables are designed for gynecological and urological examinations and interventions. Wide range of application areas are offered by their ergonomic structure and various types of accessories.

- · Ergonomic structure and easy to use.
- · Ergonomic cushions covered with waterproof material.
- · Fireproof and antibacterial leather cover.
- Electro mechanic motor system, moving without noise and vibration, suitable for various patient positions.
- · Arbitrary position options.
- Mobile foot pedal for controlling the table movements.
- AISI 304 quality stainless steel structure and bottom platform protected against liquid leakage from outside.
- Wheel system providing table to move to the required place.
- Brake system for fixing the table.

also it should not vibrate or wobble while providing a stable and well-balanced operation. The table is protected against electro static discharges by insulation and grounding the chassis to ensure the safety of the patient as well as the doctor.

Accessories

| Standart Accessories | | | |
|-------------------------------|---------|-------------|--------|
| Knee support (polyurethane) | 2 Piece | Waste bowl | 1 Adet |
| Arm support (polyurethane) | 2 Piece | IV Stand | 1 Adet |
| Holding handle (polyurethane) | 2 Piece | Leg section | 1 Adet |

Gynecological, Urological and Delivery Tables

Height adjustment is made by a quite and non-vibrating electric motor controlled by pedal or hand command unit.

Back section movement is manually controlled by a gas piston to fix the position General Features

- · Carrying capacity of 200 kgs.
- Ergonomic structure and easy to use.
- Ergonomic cushions covered with waterproof material.
- Fireproof and antibacterial leather cover.
- Electro mechanic motor system, moving without noise and vibration, suitable for various patient positions.
- Arbitrary position options.
- Mobile foot pedal for controlling the table movements.
- AISI 304 quality stainless steel structure and bottom platform protected against liquid leakage from outside.
- Wheel system providing table to move to the required place.
- Brake system for fixing the table.

Optional Accessories

- Anesthesia frame
- Battery System
- Step



Model STR-200D

Height and back part movements of the table are made by three electro-hydraulic motors controlled via a pedal or hand command. It is designed to maximize the performance of the operator during the delivery procedure. Height can be adjusted between 560 mm and 900 mm which enables the patient to sit without using step.

TECHNICAL FEATURES

| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |

Model STR-201

Height adjustment is made by a electric motor controlled via a pedal or hand command. Back section movement is controlled manually by a gas piston to fix the position.

TECHNICAL FEATURES

| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |

Model STR-202

Height and sitting part movements are made by a electric motor controlled via a pedal or hand command. Back section movement is controlled manually by a gas piston to fix the position.

TECHNICAL FEATURES

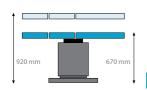
| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |









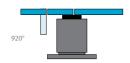




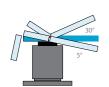
UP- DOWN MOVEMENT











BACKREST AND FOOT SUPPERT



SITTING PART





Model STR-203

Height and the back part movements are made Height and the back part movements are by two electric motors controlled via a pedal or hand command.

Model STR-203T

made by two electric motors controlled via a pedal or hand command.

Foldable foot and heel part can be positioned under the sitting part by means of the rail system which provides practical and easy use.

Model STR-204

Height and the back part movements are made by tree electric motors controlled via a pedal or hand command.

TECHNICAL SPECIFICATIONS

| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |

TECHNICAL SPECIFICATIONS

| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |

TECHNICAL SPECIFICATIONS

| Operating Voltage | 220-240 V AC / 50-60 Hz |
|-------------------|-------------------------|
| Motor Power | 0.4 kW |
| Carrying Capacity | 200 kg |

















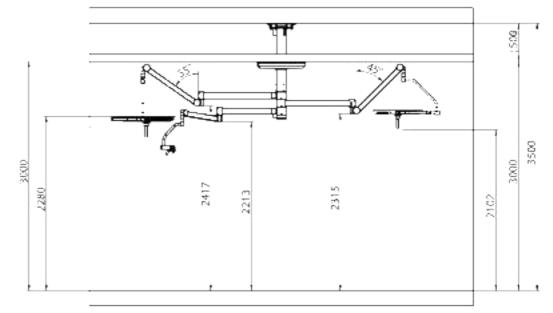


I. GOLDBERG Ceiling Type LED Operation Lamps

TECHNICAL FEATURE

| TECHNICAL FEATURE | | | |
|----------------------|--|------------------|------------------|
| General data | Designation/name | GOLDBERG LED 500 | GOLDBERG LED 700 |
| | Weight of the light head [kg] | 15 | 18 |
| | Service life [h] | >50000 | >50000 |
| Electrical Data | IP protection class | 42 | 42 |
| | Connected loads | | |
| | Voltage [V] | 24 | 24 |
| | Voltage range [V] | 20 to 32 | 20 to 32 |
| | Power consumption, maximum [A] | 2,0 | 2,5 |
| | Power consumption, average [A] | 1,6 | 2,1 |
| Photometric values | Rated power output [W] | 40 | 50 |
| | Illuminance EC at distance of 1 m [klx] | 130 | 160 |
| | Electronic brightness adjustment [klx] | 40 to 130 | 40 to 160 |
| | d10 light field, Æ at 10 % of the max. illuminance at a distance of 1 m [mm] | 170 to 280 | 170 to 300 |
| | Field adjustment | yes | yes |
| | Residual illuminance with shadowing by one mask, relative to EC [%] | 55 | 65 |
| | Residual illuminance with shadowing by two masks, relative to EC [%] | 45 | 55 |
| | Residual illuminance in standardized tube, relative to EC [%] | 100 | 100 |
| | Colour rendering index Ra | 96 | 96 |
| | Red rendering index | 96 | 96 |
| | Illumination depth (L1/L2) 20% [mm] | 1000 | 900 |
| | Illumination depth (L1/L2) 60% [mm] | 550 | 510 |
| | Total irradiance at 130/160 klx [W/m2] | 480 | 520 |
| | Colour temperature [K] | 4900 | 4900 |
| Operating conditions | Irradiation/illuminance [lm/W] | 290 | 290 |
| | Temperature [°C] | 5-40 | 5-40 |
| | Relative Humidity [%] | 95 | 95 |

LED Technology which is recently developed provides low energy consumption. Goldberg Serie developed with new standards is the newest generation of white light. LED Light with high light illumination quality, efficiency, natural light color, competitive price, cost effective maintenance and being less harmful to environment is the best choice for operating rooms.







II. Examination Lamp

Examination Lamp / MODEL ERML - 200

Used in gynaecological examination.

- LED light source providing cold light.
- Spiral systems allowing the operator, more comfortable working conditions.
- Easy mounting and demounting to the side rails of table.

Examination Lamp / MODEL ERML - 210

Used in gynaecological examination.

- Halogen light source providing cold light.
- Spiral systems allowing the operator, more comfortable working conditions.
- Easy mounting and demounting to the side rails of table.







I. Surgical Sutures

| Absorbable Surgical Suture | | Performance and Undesirable Effects of Product: PGLA (Poly Lactic-co-Glycolic Acid) causes minimally initial inflammatory reaction in tissue and endogeny of fibrous connective tissue. Absorbable surgical sutures should not be used where long term approximation of tissue under stress is needed. The skin sutures that need to remain for longer than 7 days may cause local irritation, so they should be removed if necessary. Also, absorbable suture causes temporary local irritation on the wounds, temporary foreign body inflammatory response and redness during absorption of subcuticular suture. PGLA / PGAR (Poly Lactic-co-Glycolic Acid) as all foreign bodies can increase the existing infection. | | | |
|---|----------------------|--|--|---------------------------------|--|
| The braided character of the product: Braided | | Purpose: Using for general soft tissue closure procedure. | | | |
| Code Gauge: | 0 1 3-0 4-0 | Usage: The absorption of surgical suture by the body starts within 14 days after implantation, mass reduction of tensile strength of PGLA decreases up to 75% by the end.50% of original tensile strength remains within 3 weeks. All the absorption takes place within 56-70 days. | | | |
| PGLA [Poly Lactic-co-Glycolic Acid] | | Place of Use in the Body Subcutaneous, General Surgery, Eye Surgery, Gynecology, Urology, Gastrointestinal Surgery, | Intended Use in the Body Excellent knot security, Minimal tissue reaction, smooth transition throughout tissue, General soft tissue approximation, intracutan, Ligation, | Duration of Stay in the Body | |

İğne boyu | Circle Çeşit USP No Cm PGLA 90 cm 40 mm PGLA 75 cm 40 mm 1/2 PGLA 0 75 cm 40 mm 1/2 PGLA 75 cm 30 mm 1/2 PGLA 75 cm 20 mm

II. Strilization and Tyvek Bobin







III.Disinfectants and Washer-Disinfector Solutions



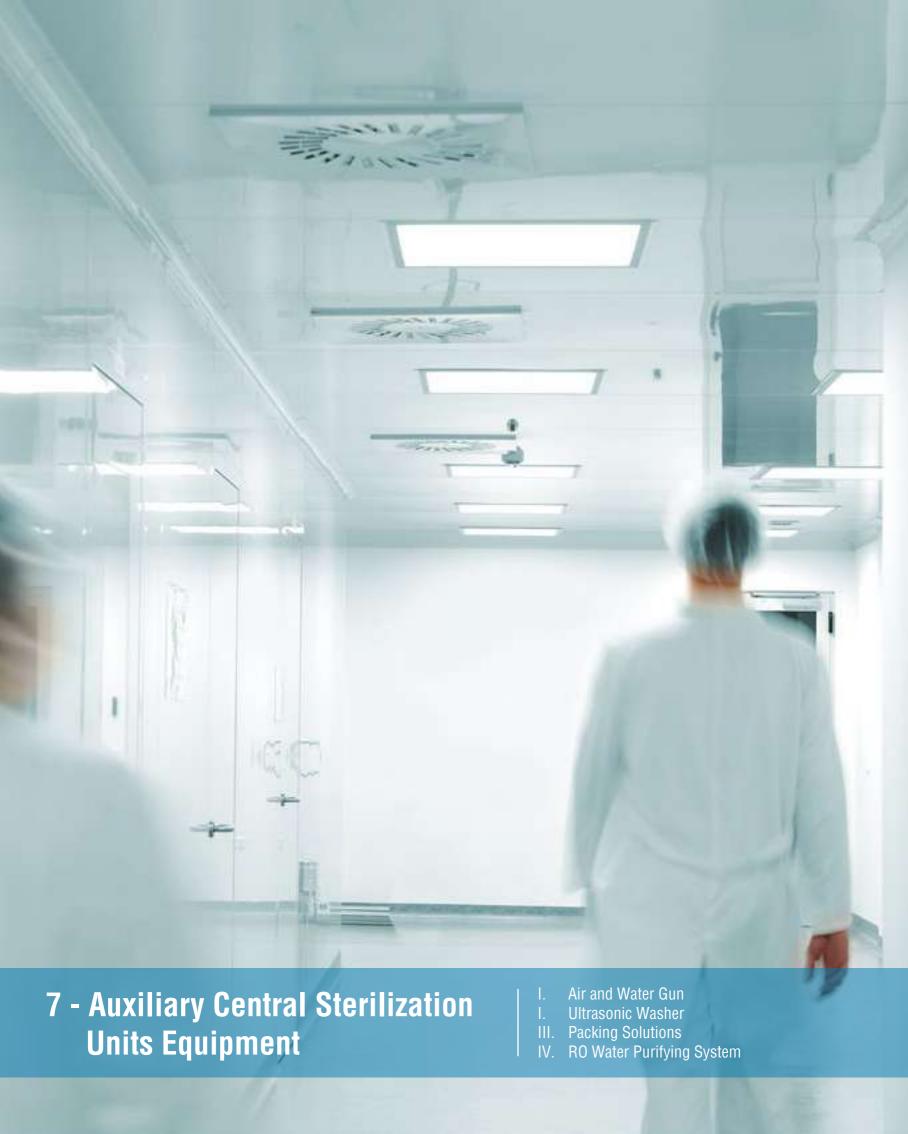




IV. Hydrogen Peroxide (H₂O₂) Cartridges







Auxiliary Central Sterilization Units Equipment



Air and Water Gun:

- · cleaning and disinfecting instruments with recessed surfaces,
- · pressurized air or water connections,
- · eight different adapters,
- pressure-resistant hose,
- · wall mounted with holders for adaptors.
- · you can follow up all sterilization process easily,
- you can manage the sterilization unit whithin the frame of quality management system.



II. Ultrasonic Washer:

Basit ve anlaşılır kontrol paneli mevcuttur.

- · Easy and comprehensible control panel,
- · High operation frequency,
- · Low noise,
- High-power ultrasonic generators,
- Chamber volume varies from 1.8 90 liters,
- Microprocessor controlled, temperature and cleaning duration.



III. Packing Solutions:

Wide range of products from the models suitable for small capacity clinics to the ones which are microprocessor controlled, for high-capacity hospitals.



IV. RO Water Purifying System:

Euphoria Medical Devices Inc. offers reverse osmosis water purifying system consisting of water pump with stainless steel frame and water tank.







Stainless Steel Equipments



Tools & Medicine Cabinet Model ER-1001 / ER-1002

- Designed for surgical operation and medical intervention rooms,
- Designed for surgical operation and medical intervention rooms,
 Made of AISI 304 quality 18/8 CrNi stainless steel,
 Contains glass door with locker at the upper part, two drawers and one locker cupboard at the bottom,
 Removable drawers with telescopic rails for easy cleaning,
 Optional "suspension legs" replacing swivels forstationary version.
 Custom production for specific size.



Operation Room Glass Door Cabinet Model ER-1001/ER-1002

- Designed for surgical operation and medical intervention rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Contains four stowing space separated by three shelves,
- Locking doors,
- Transparent glass doors
- Door handles and feet made of first class stainless steel,
- Suspension legs made of high quality stainless steel with adjustable height and balance,
- Custom production for specific size.



Dressing Trolley Model ER-1051 / ER-1053

- Designed for medical dressing procedures,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Serum bottle holder on table top,
- Contains five drawers,
- Removable drawers with telescopic rails for easy cleaning,
- Removable 12 It waste bin,
- Bowl can be inserted under table when not used, enabling a smaller volume for trolley,
- Four swivel casters, two of them with brakes,
- Custom production for specific sizes.



Dressing Trolley with Drawers Model ER-1054 / ER-1055

- Designed for medical dressing procedures,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Serum bottle holder on table top,
- Contains three drawers and two cupboards,
- Removable drawers with telescopic rails for easy cleaning,
- Removable 12 lt waste bin,
- Bowl can be inserted under table when not used, enabling a smaller volume for trolley,
- Four swivel casters, two of them with brakes,
- Custom production for specific sizes.



Dressing Trolley Model ER-1051 / ER-1053

- Designed for medical dressing procedures,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Serum bottle holder on table top,
- Contains five drawers,
- Removable drawers with telescopic rails for easy cleaning,
- Removable 12 lt waste bin,
- Bowl can be inserted under table when not used, enabling a smaller volume for trolley,
- Four swivel casters, two of them with brakes,
- Custom production for specific sizes.

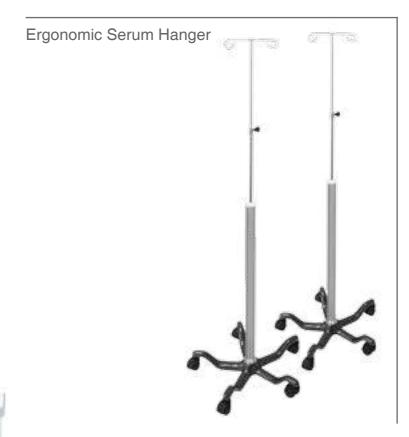






Surgical Tool Wash Sink Model ER-1125 / ER-1144

- Designed for sterilization centers, Washing/Disinfection rooms and for all types of washing units,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Available production with single, double, triple or more sinks with respect to the size of sterilization center,
- Suspension legs made of first class stainless steel with adjustable height and balance,
- · Custom production for specific sizes.





Work Table with Cupboard Model ER- 1150 / ER- 1154

- Designed for surgical operation and medical intervention rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Four removable drawers with telescopic rails for easy cleaning, Cupboard section with easy to use sliding door mechanism and with a middle shelf.
- Four Suspension legs made of first class stainless steel with adjustable height and balance,
- Custom production for specific sizes.



Packing Table Model ER- 1175 / ER-1182

- Designed to use in sterilization units, packing departments and in hygenical environment,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Four swivel casters, two of them with brakes,
- Rubber bumpers on the corners to prevent damage on wall, door and other surfaces in case of a collision,
- Optional manufacturing from plastic covered wood material for upper and lower trays,
- Optional drawer and power socket,
- Custom production for specific sizes.





Light Table Model ER1200 / ER1205

- Designed to use in contolling and packing textile materials,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Removable, transparent plexiglass plate on upper tray,
- Illumination of upper tray with lamps under it, controlled by a switch,
- Suspension legs with adjustable height and balance, optional production with swivel casters,
- Optional manufacturing from plastic covered wood material for upper and lower trays,
- Custom production for specific sizes.

Medicine & Instrument Trolley Model ER1225 / ER1128

- Designed to use in surgical operation rooms and all hygenic rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Fences surrounding the top except the operator side to prevent the material falling down,
- Six drawers and one cupboard section,
- Removable drawers with telescopic rails for easy cleaning,
- Handles on cupboard and drawers, made of first class stainless material,
- Four swivel casters, two of them with brake,
- Custom production for specific sizes.







Hygenic Material Cupboard Model ER1250 / ER1253

- Designed to use in surgical operation and medical intervention rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Three cells to store galosh, bonnet and mask separately.

 Optional production of 6-cell store by adding another shelf on top,
- Rubber covering of sharp sides of cells to prevent hand cuts,
- Waste section with an easy opening door at the lower part,
- Handle made of first class stainless material,
- Four swivel casters, two of them with brakes,
- Custom design and production for specific types

Tool & Package Trolley with Drawer Model ER1275 / ER1278

- Designed to use in surgical operation rooms and all hygenic rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Fences surrounding the top except the operator side to prevent the material falling down,
- One removable drawer with telescopic rails for easy cleaning,
- Four swivel casters, two of them with brake,
- Custom production for specific sizes.





Tool & Package Trolley / Model ER1300 / ER1303

- Designed to use in surgical operation rooms and all hygenic rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Fences surrounding the top except the operator side to prevent the material falling down,
- Four swivel casters, two of them with brake,
- Custom production for specific sizes.



Tool Table Model ER11325/ ER1328

- Designed for surgical operation rooms and all hygenic rooms,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Two-tray structure,
- Four swivel casters, two of them with brake,
- Custom production for specific sizes.





Container Carriage Trolley Model ER1375

- Designed to carry containers and wire baskets at sterilization units,
- Made of AISI 304 quality 8/8 CrNi stainless steel,
- Can carry fifteen of containers (3+6+6)
- Custom production for specific sizes.

Closed Carriage Trolley Model ER1450

- Designed to carry containers and material between contaminated and clean rooms in sterilization centers,
- Made of AISI 304 quality 8/8 CrNi stainless steel,
- Secured transfer of sterilized materials to store room,
- Four swivel casters, two of them with brake,
- Custom production for specific sizes,
- Optional number of shelves.







Shelf System Model ER1550

- Designed for surgical operation rooms, sterilized material storage and other units,
- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Portable shelves with three, four or five-shelf configuration,

Shelf System Model ER1600

- Made of AISI 304 quality 18/8 CrNi stainless steel,
- Portable shelves with three, four or five-shelf configuration,
- Four swivel casters, two of them with brakes in ER1600 model.





Waste Bucket Model ER1350/ ER1351

- Designed for surgical operation and medical intervention rooms,
- Made of AISI 304 quality 8/8 CrNi stainless steel,
- Custom production for specific sizes.



Containers Model ER1400 / ER1403

- Made of specific aluminium material,
- Colored lids to prevent to get mixed up or lost of surgical instruments.
- Tiny openings on lid enabling the sterilization of the material inside easily,
- Handles for easy carrying,
- Labeling for easy classification and identification of the material inside.





Wire Baskets – Strainers Model ER1425

- Made of specific stainless material,
- Durable and rigid structure,
- Prevents to get mixed up and lost of surgical instruments during sterilization,
- With a honeycomb structure, it provides easier pre-cleaning with water or other liquids during pre-sterilization,
- Handles to carry easily.



Waste Bucket Model ER1350/ ER1351

- Designed for surgical operation and medical intervention rooms,
- Made of AISI 304 quality 8/8 CrNi stainless steel,
- Custom production for specific sizes.





Containers / Model ER1400 / ER1403

- Made of specific aluminium material,
- Colored lids to prevent to get mixed up or lost of surgical instruments,
- Tiny openings on lid enabling the sterilization of the material inside easily,
- Handles for easy carrying,
- Labeling for easy classification and identification of the material inside.

Wire Baskets – Strainers Model ER1425

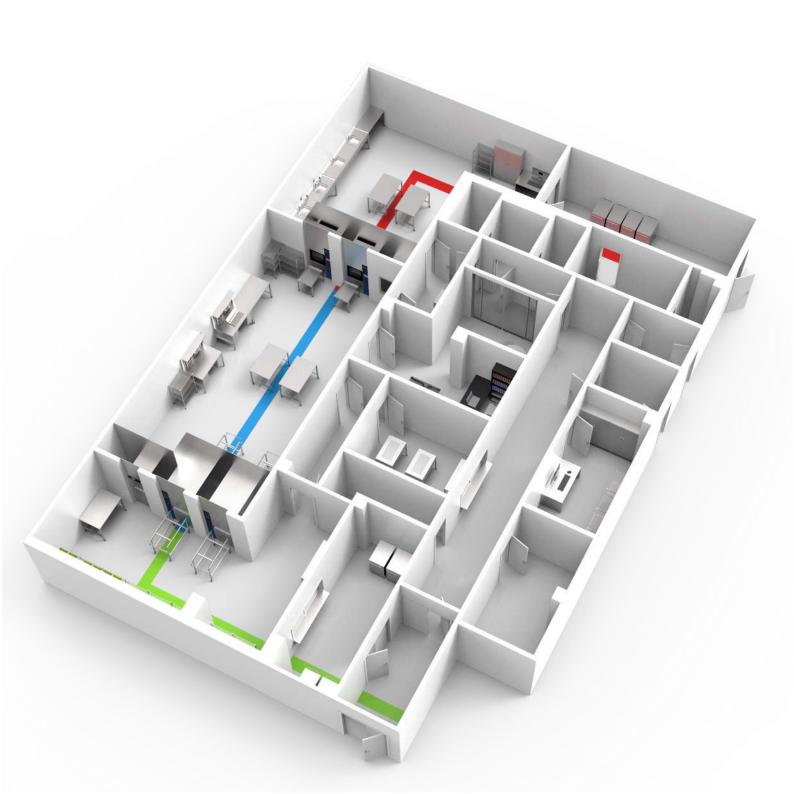
- Made of specific stainless material,
- Durable and rigid structure,
- Prevents to get mixed up and lost of surgical instruments during sterilization,
- With a honeycomb structure, it provides easier pre-cleaning with water or other liquids during pre-sterilization,
- Handles to carry easily.





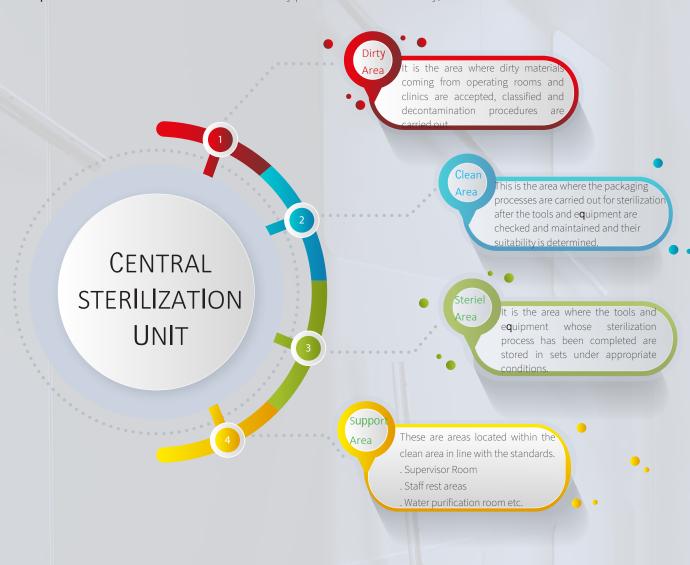
Euphoria®

CENTRAL STERILIZATION UNIT PROJECTS





Central Sterilization Units are units where materials used for diagnosis and treatment purposes in the hospital and that require sterilization for reuse receive the necessary procedures. Architecturally, the unit consists of 3 main areas.







Our Project Vision

In both new hospital projects and plans involving the renewal of existing hospital Central Sterilization Units, our expert project team prepares guidance, field feasibility assessment, project design and presentation in accordance with the standards, taking into account the expectations of the customer. Our goal is always to act solution-oriented and guide correctly. In this regard, the projects of Central Sterilization Units designed in accordance with the standards are prepared by us in Autocad and 3D format.





AND DRYING DEVICE

Washing, Disinfection and Drying Devices are used in units such as Hospitals, Operating Rooms, Central Sterilization Units, Clinics and Laboratories, used for contaminated items such as surgical instruments, MIS instruments, anesthesia instruments, ophthalmology instruments, dental surgical instruments, containers, rubber slippers, feeding bottle bottles, laboratory glassware. It is designed to be used for washing and thermal disinfection of processed products. The device is equipped with an effective, powerful hot air drying system that ensures perfect drying of all tools and materials thanks to the loading rack compartments in the boiler and the correct distribution of air at all shelf levels. Our Washing, Disinfection and Drying Devices are produced with fully automatic frontal loading hinged door and automatic sliding door models and single or double door versions.





DEVICE MODELS AND OUR EQUIPMENT

GY150 Model



Undercounter Washing Disinfection and Drying Device

Cabin Volume 150 L, 8 DIN 1/1 Basket

Cabinet Dimensions: 540x510x550 mm

Device Dimensions: 900x840x630 mm

Forward opening Stainless Steel Door

Stainless Steel Storage Compartment for Consumables

(Chemical Drums)

4+10 programs and touch screen

H14 Hepa Filter

Internal Printer Optional

RS 232 Port

Electricity: 3 x 220/380 V AC, E + Z, 50 Hz, 7.5 kW, 10 A

GY225 Model



Washing, Disinfection and

Drying Device

Cabin Volume 225 L, 8 DIN 1/1 Basket

Cabinet Dimensions (W.xH.xD): 660x576x610 mm

Device Dimensions (WidthxHxDr.): 1050x1920x820 mm

Forward opening manual type with single and double door configurations

4+10 programs and touch screen

H14 Hepa Filter

Internal Printer Optional

RS 232 Port

Electricity: 3 x 220/380 V AC, E + Z, 50 Hz, 10 kW, 12 A

GY290 - GY360



GY290 Model

Washing, Disinfection and

Drying Device

Cabin Volume 290 L, 10 DIN 1/1 Basket

Cabinet Dimensions (W.xH.xD): 660x720x610 mm

Device Dimensions (WidthxHxDr.): 1050x1920x820 mm

Automatic sliding type with single and double door configurations

Electricity: 3 x 220/380 V AC, E + Z, 50 Hz, 10 kW, 12 A

GY360 Model

Washing Disinfection and

Drying Device

Cabin volume 360 L, 15 DIN 1/1 Basket

Cabinet Dimensions (W.xH.xD): 660x720x770 mm

Device Dimensions (WidthxHxDr.): 1050x1920x965 mm

Automatic sliding type with single and double door configurations

Electricity: 3 x 220/380 V AC, E + Z, 50 Hz, 12 kW, 20 A



Washing Disinfection and Drying Device Loading Equipment and Accessories

■ Loading Equipment

Appropriate loading equipment options are offered for washing operations carried out with our washing, disinfection and drying devices. These generally include loading trolleys, loading racks at different levels, baskets where tools and equipment are placed, and a wide range of products specially designed to meet the usage needs of customers. For washing procedures: Surgical instruments, Minimally Invasive Surgical instruments, Anesthesia instruments,

For washing procedures: Surgical instruments, Minimally Invasive Surgical instruments, Anesthesia instruments, Ophthalmology instruments, Operating room rubber slippers, Containers, Feeding bottles...











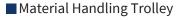


Support Auxiliary Equipment That Should Be in the Dirty Area

■ Ultrasonic Washing Device

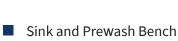


Air and Water Gun





■ Dirty Material Reception Desk



■ Solution - Alkaline - Neutral









Confidence and Quality and Compliance with Standards in Production;

- Medical Device Directive 93/42/EEC,
- EN 6601-1, EN 61000-1, EN 601-10-2-040
- Machinery Safety Directive 2006/42/EC
- EN 60601-1-2, EN 61326-1, EN ISO 15883-1-2



2 CLEAN AREA

Central Sterilization Units in clean area; •

Tool maintenance and repair

- Packaging process
- Sterilization process is done sequentially.

Disinfected tools and equipment are classified according to their section and type; inspection and then repair and maintenance operations are carried out.



Following all these processes, the tools and equipment are transferred to the packaging station to perform packaging in accordance with the standards. The checking and folding process of textile materials is done on illuminated linen folding tables. All the equipment we have produced in accordance with the architectural project to be used in the area is of stainless steel AISI304 quality.

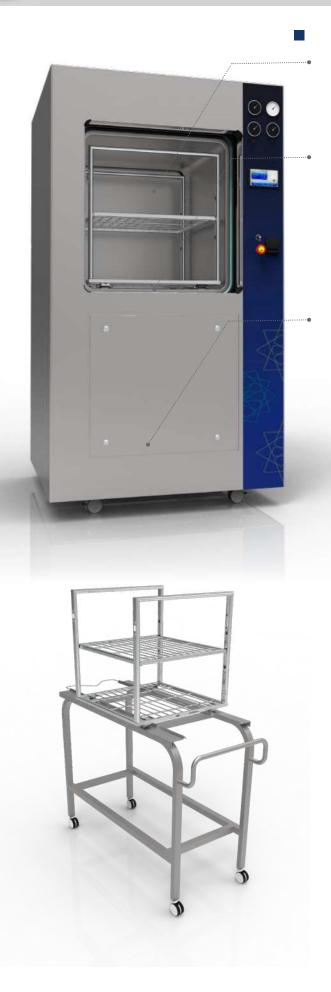
STERILIZATION DEVICES

- Steam Sterilization Devices (Autoclave)
- Hydrogen Peroxide Low Temperature Sterilizers











YDROGEN PEROXIDE LOW HEAT STERILIZER



It is designed for the sterilization of sensitive instruments and equipment that are not resistant to heat and moisture. It allows longer-term use of tools by preventing corrosion caused by moisture.

Since Hydrogen Peroxide, which contains free radicals, is extremely reactive, it interacts with the cell membrane and organic structure of microorganisms and kills the microorganism.

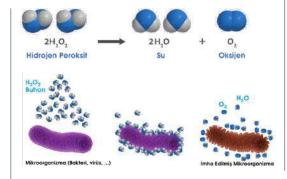
It does not use or release toxic substances.

It is user and environment friendly, producing only water and oxygen as waste. It can sterilize at low temperatures (40-55 °C).

It can sterilize lumen instruments and devices.

Loads to be sterilized can be sterilized in Tyvek packages. With its easy installation, there is no need for infrastructure other than electrical connection. It has low purchasing and operating costs.

■ Hydrogen Peroxide Sterilization Logic _





ECHNICAL SPECIFICATIONS OF HYDROGEN PEROXIDE DEVICES

BOILER DIMENSIONS

| MODEL | GP 80 | GP 120 | GP 135 | GP 160 | GP 200 |
|-------------------|-------|--------|--------|--------|--------|
| BOILER VOLUME (L) | 80 | 120 | 135 | 160 | 200 |
| WIDTH (mm) | 450 | 450 | 450 | 450 | 450 |
| HEIGHT (mm) | 400 | 400 | 400 | 400 | 400 |
| DEPTH (mm) | 560 | 700 | 750 | 890 | 1120 |

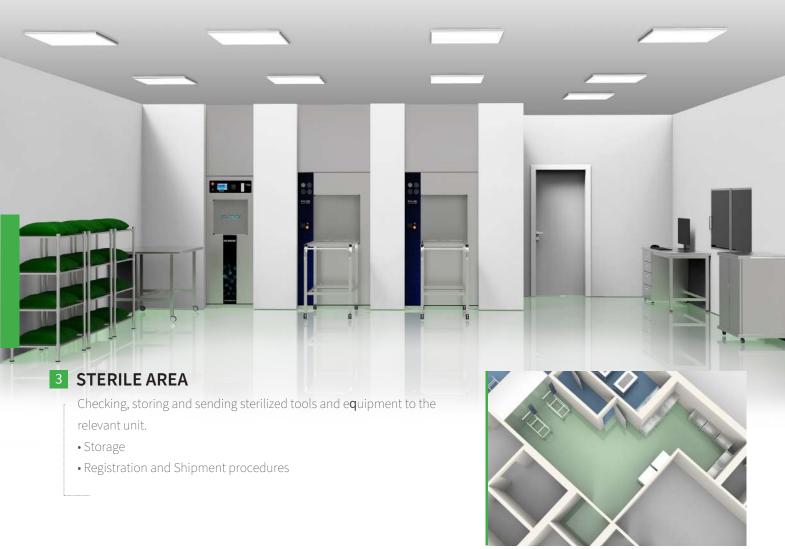
EXTERNAL DIMENSIONS

| MODEL | GP 80 | GP 120 | GP 135 | GP 160 | GP 200 |
|----------------|-------|--------|--------|--------|--------|
| GENİŞLİK (mm) | 735 | 735 | 735 | 735 | 735 |
| YÜKSEKLİK (mm) | 1885 | 1885 | 1885 | 1885 | 1885 |
| DERİNLİK (mm) | 1000 | 1000 | 1000 | 1250 | 1300 |
| AĞIRLIK (kg) | 330 | 350 | 380 | 400 | 440 |

ELECTRICAL CONNECTION

| MODEL | GP 80 | GP 120 | GP 135 | GP 160 | GP 200 |
|-----------------|--|--------|--------|--------|--------|
| CİHAZ GÜCÜ (kW) | 2,8 | 4,1 | 4,1 | 5,5 | 5,5 |
| BAĞLANTI | 3 Faz / 380 ± 10V / 50 ~ 60Hz/ 5x2,5 mm² kablo | | | | |







Stainless equipment used in the sterile area

■ Dispatch Desk



■ Sterile Container Transport Trolley



■ Wire shelf



■ Closed Material Handling Trolley





STAINLESS EQUIPMENT AND EQUIPMENT USED IN THE CENTRAL

STERILIZATION UNIT

Pre-wash reception and sinks



- It is produced with one, two or three sinks.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Production is carried out in accordance with the prepared architectural projects.

Air and water gun



- It is stainless steel.
- It is designed as a compressed air or pressurized water gun. It is suitable for cleaning the inside of lumen instruments.
- Resistant to 6 bar pressure.
- There is a screw system on the gun for pressure adjustment. It has eight replaceable tips of different sizes.
- It has a PVC connection hose.

■ Ultrasonic Washing Device



- Such as stainless steel lids and various washing baskets from 18 liters to 40 liters Countertop ultrasonic washing device solutions with accessory options.
- \bullet Blood and protein on tools and e ${\bf q}$ uipment (lumen, etc.), especially those that are difficult to clean
- and other organic substances are dissolved and removed by ultrasonic waves at a certain temperature (40-50C).

■ Mobile Desks



- The table can be produced as movable or fixed upon request.
- The desk can be optionally produced as single or double deck.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Manufacturing is done in accordance with the prepared architectural projects.

■ Large Equipment and Car Wash Pressure Water Pump



- Electric-free and proportional dosing technique
- Has measuring function thanks to volumetric hydraulic motor
- The process of continuous proportional injection of liquid or chemical solution
- Integrated mixing feature
- Servo-controlled adjustment by water flow proportionally
- The system consists of 1 Dosatron, 1 Wall console, 1 Suction hose.



Lighted Linen Folding Tables



- Textile material in the LED lighting area positioned on the table (Woven Surface) control is performed.
- The lamp is controlled by an on/off switch.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Manufacturing is done in accordance with the prepared architectural projects.

■ Reception and Dispatch Desks



- The table is produced in configurations with and without drawers
- There are 2-3-4 drawers on the table.
- Produced with or without cabinets
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Production is carried out in accordance with the prepared architectural projects.

Material Handling Trolleys



- Produced in different configurations such as open, closed, with barrier, without barrier, single storey, double storey.
- It is designed to transport materials in operating rooms and sterilization centers.
- It is suitable for transporting containers or other materials.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- It is produced in the desired configuration and dimensions depending on customer request.





Material Cabinets



- · Cabinets are in suitable configurations to store materials, tools, medicines, caps and bonnets. produced.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Manufacturing is done in accordance with the prepared architectural projects.











■ Fully Automatic Packaging Device



- It is used in the packaging of tools and equipment that will be sterilized.
- Various models for both closing process and automatic cutting and closing process is produced.
- Robust, durable body
- Temperature control with microprocessor
- Temperature tolerance ±1%
- Automatic feeding with optical sensor
- Adjustable temperature between 50°C and 250°C
- LCD Display
- 10m/min. closing speed
- Adjustable closing distance
- Automatic sleep mode
- Integrated printer
- Packaging date, expiration date, lot number and operator code can be written
- Adjustable font width
- Printer unit can be disabled
- Lot/Package counting feature
- Packaging date and expiration date are automatically updated

■ Packaging Station



- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- It is produced with multi-functional features in the packaging process.
- There is a roll cutting device.
- Optionally produced with 2 or 3 drawers
- There are two roll hanging mechanisms.
- The table is illuminated with a LED lamp.
- There is a five-pin socket group on the table.
- There are 1 or 2 material shelves on the table.
- Optionally, an illuminated magnifying glass can be added to the table. Optional monitor connection to the desk

foot is added.

• Manufacturing is done in accordance with the prepared architectural projects.

■ Packaging Table



- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- There is one roll cutting device.
- Optionally produced with 2 or 3 drawers
- There are two roll hanging mechanisms.
- 1-3 sterilization baskets of different sizes on the side or on the table
- Optionally, LED table lighting can be added.
- Optionally, a magnifying glass with lamp is provided.
- Manufacturing is done in accordance with the prepared architectural projects.



Tool Carts with Basket



- Production of transport trolleys with baskets at single, double, triple and alternative storey levels. is being done.
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- The entire body of the basket cart must be made of 3.5mm (±10%) wires.
- There are 4 round silicone heads mounted on the carrier foot just above the wheels of the basket. It has a fast buffer.
- There are no weld stains, sharp corners, burrs etc. in the basket. There are no workmanship





Wire Shelving System



- It is manufactured in three, four and five layers.
- Made of AISI 304 Quality 18/8 CrNi stainless steel
- It is portable.
- The shelves have a grid feature.
- Shelf spacing is adjusted.
- Manufacturing is done in accordance with the prepared architectural projects.

Wrap Hanger



- Made of AISI 304 Quality 18/8 CrNi stainless steel
- The suspension pipes of the car are made of seamless stainless steel.
- The trolley has a 100 mm diameter plastic body that can rotate 360 degrees, two of which have brakes.

It has four wheels.

• Holding and pushing handles should be polished.

Serum Hanger



- Made of AISI 304 Quality 18/8 CrNi stainless steel
- The serum hanger has five plastic legs and plastic wheels on the legs.
- Two of the wheels have a brake system.
- The IV pole holder has four hooks and is suitable for carrying an infusion pump.



Device Carts (Stand)



- The shelves of the trolley are designed to accommodate device placement.
- Made of DKP sheet metal.
- The device cart is painted with antibacterial electrostatic powder paint.
- The device trolley has 3 floors and 1 drawer.
- The device trolley has 4 antistatic wheels, two of which have brakes.

Surgical Port Dual Cuvette



- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- ullet The porta bathtub has two rings and two basins placed on this ring. ullet The portable bathtub has ${\bf 5}$ antistatic wheels, two of which have brakes.
- The portico has one push handle.

■ Moon Table (Tool Carrying Table)



- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- Moon table is designed for operating rooms and intervention rooms.
- The carrier pipes of the table are made of seamless stainless steel. The table is produced in a double-shelf configuration.
- One side of the table top shelf is produced with a barrier.

Dressing Trolleys



- Made of AISI 304 Quality 18/8 CrNi stainless steel
- The trolley is produced in different configurations with 2, 3 or 4 drawers. There is a basin and basin apparatus on the side of the car.
- There is a plastic trash can on the side of the car.
- There is one push handle in the car.
- The car has 4 antistatic wheels, two of which have brakes.

Kes

■ Swimsuit Table



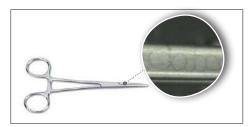
- Made of AISI 304 Quality 18/8 CrNi stainless steel.
- The top of the swimsuit table is adjustable and can rotate independently 360 degrees It has the feature.
- The height of the swimsuit table should be adjustable via hydraulics. 4- Car ABS an-It must have 3 wheels, two of which have brakes.



REVERSE OSMOSIS WATER PURIFICATION SYSTEM

■ The importance of using a water purification system

The use of purified water is very important to prevent any damage that may be caused to machines and equipment in MSÜs. The pictures below show the damage that can be caused by using untreated water.





Required values for fed water quality

Within the scope of FDA and European Union Decrees-Medical Device Directive (93/42/EEC), according to European Standard EN 285: 1996 (Annex-B), the water **q**uality to be used in Steam Sterilization devices must be within the values specified in the table below. .

The water to be used in our devices manufactured by us must comply with the specified criteria. For this purpose, it is highly recommended to use a water purifier along with our devices.

| VALUES THAT SHOULD BE IN | FEED WATER QUALITY Feed |
|--|-------------------------------------|
| Water Evaporation Residue | ≤ 10 mg/L |
| Silicon Oxide , SiO ₂ | ≤ 1 mg/L |
| Iron | ≤ 0,2 mg/L |
| Kadmiyum | ≤ 0,005 mg/L |
| Bullet | ≤ 0,05 mg/L |
| Other than Iron, Cadmium, Lea other heavy metals | d ≤0,1 mg/L |
| Chloride (Cl) | ≤2 mg/L |
| Phosphate (P ₂ O ₅) | 0,5 mg/L |
| conductivity in 25°C' | ≤ 5 µs/cm |
| PH value | 5 – 7 |
| Appearance | Colorless - Clean - Without residue |

