TECHNICAL SPECIFICATIONS

The bidder is required to supply Complete cutting system for shredder RS30-450 For AMB Ecosteryl 75 and Complete cutting system for shredder RS40-750 For AMB Ecosteryl 125 o, Gaza Strip, Palestine on DAP (delivery at Place ) basis.

The Total quantity required is as given in BOQ

<table>
<thead>
<tr>
<th>#</th>
<th>Item to be supplied Description/Specifications</th>
<th>Quantity</th>
<th>Delivery Date</th>
<th>Other Information</th>
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<tbody>
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<td>Complete cutting system for shredder RS30-450 For AMB Ecosteryl 75 (Ref No.: XB00107)</td>
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<td></td>
<td>Cutting systems include :</td>
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<tr>
<td></td>
<td>- Main cutters</td>
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<tr>
<td></td>
<td>- Side cutters</td>
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<tr>
<td></td>
<td>- Washers and star washers</td>
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<tr>
<td></td>
<td>- Slot nuts</td>
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<tr>
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<td>Complete cutting system for shredder RS40-750 For AMB Ecosteryl 125 (REF No.: XB00209)</td>
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<td></td>
<td>Cutting systems include :</td>
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<tr>
<td></td>
<td>- Main cutters</td>
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<tr>
<td></td>
<td>- Side cutters</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Washers and star washers</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>- Slot nuts</td>
<td></td>
<td></td>
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</tbody>
</table>

FIRST: SPECIFICATIONS OF MICROWAVE FOR MEDICAL WASTE TREATMENT

A clean technology for the treatment of medical waste combining in a continuous flow process, powerful shredding with dry microwave core heating of waste. Key information of the required technology:

- A high productive technology for the treatment of sizeable deposits.
- Slow, highly powerful shredder on four shafts with a screen and unshreddables management, shredder located upstream.
- A microwave system for continuous thermal processing that uses no steam or water and does not emit any liquid or rejects in the atmosphere no radiation or odor.
- Sifting of homogenates to obtain a very fine grinding.
- Production of a very dry decontaminated homogenate, potentially recoverable and recyclable product.
- 100% ecological technology with zero pollution.
- The process shall consist in the shredding and heating of medical waste up to a certain temperature, which is maintained for close to one hour (the needed time to insure complete and efficient sterilization). The system shall be designed to work in a continuous process (no batch).
- Once treated through the system, hazardous (infectious) medical wastes shall fall into the same category as household rubbish, avoiding any risk of contamination.
1. **DESIGNATED WASTES**
Machine shall be designed for the processing of infectious medical waste including, but not limited to, sharps and prickly, syringes, needles and waste drums that hold up to 60L using the four shaft shredder.

2. **PRODUCT SPECIFICATIONS**
- Capacity: up to 100kg/hr. (220lbs/hr.)
- Volume capacity: approximately 1200L
- Treatment type: Pre-shredding with core hearting microwave disinfection technology
- Emissions: zero emissions
- Effectiveness: 6log10 disinfection
- Electricity supply is **230 V, 50 Hz.** The supplier shall mention the needed power in terms of power (KW) and amperes. The supplier shall also mention the capacity of the needed electric generator at the peak load to run the machine. The generator is not included in the price.
- The supplier shall send the required dimensions of the needed space in terms of length, width and height.

3. **PRODUCT DESCRIPTION**
- Microwaves screw
- Heat insulated waste screw
- Four shaft shredder
- Microwaves generator
- Fail safe technology with alarms
- Challenge quality control protocol using SCBI and incubator kit

4. **DESCRIPTION OF PROCESS**
   
   **(I) Handling and Loading:**
   System shall be a manual loading

   **(II) Shredder**
When the lid of the loading hopper closed, the shredder shall be automatically activated. A screen shall be placed under the latter to get a homogenous size under 20mm diameter. The shredder shall be four shaft type including an automatic anti-blocking device reversing of the direction of the operation of the two motors in case of blockage in order to unblock the unit and return it to the normal operation.

The homogenous waste shall fall to the under mill hopper before passing them to the processing screw which shall bring it to the second phase of the process. This under mill hopper shall also include level indicators.

   **(III) Continuous Microwave**
The processing screw shall be of spiral design. The processing screw shall bring the products into the microwave oven where it shall be heated up to a certain temperature to achieve complete and efficient sterilization.

The box beam patent shall cover the use of microwaves in stereo mode with controlled field polarization in a specially adapted recess. This way shall make it possible to heat the products to the core with a rapid rise in temperature. The system shall also provide for a temperature measurement at the microwave outlet to check the treatment quality, bacteria reduced by 6log10. A control system shall adjust the operation of the equipment in order to maintain the desire temperature at the end of the process.
(IV) Holding, Treatment, and Final Output
The waste shall enter the temperature maintenance screw where its temperature is maintained. The heat insulated screw shall be kept at its temperature level using external heating resistors. The waste shall stay in the screw for the needed time to ensure the complete contamination.
At the end of the process, then the waste shall leave the equipment through the screw in a container with a reduction in volume. The supplier shall mention the reduction ratio. The system shall have a programmable controller with a touch screen for automatic operation, monitoring, control and storage of the equipment operating parameters. The system should also have an online control through internet that allows the manufacturer to monitor and make the needed calibration remotely.

5. Monitoring and PLCS
The machine shall have an interface screen to control the machine and monitors both settings and decontamination process. The screen shall have the following:
- Operating view
- Mill settings
- Screw mixer and settings
- Retaining screw settings
- Heat settings
- Microwave settings
- Temperature curves
- Torque curves
- Alarms
- Operating time
- System

6. Safety Control
At electrical level
- All motors shall be equipped with ab IP 55 protection allowing for intensive washing.
- All cables shall run inside metal reinforced sheets or rigid tubes.
At mechanical level
- No moving equipment shall be accessible when the unit is in operation.
- The hopper accesses are closed and protected with safety switches.
- The lifting equipment shall be indicated by lamps.
- The access to the moving parts shall be totally protected.

SECOND: Training for Operators by Manufacturer
Tender shall cover the training of the following topics for Client’s operators and engineers:
- Operations of equipment
- Maintenance of equipment
- Inspection and monitoring
- Software and programming
THIRD: List of required Spare Parts

<table>
<thead>
<tr>
<th>Year No.</th>
<th>Description of spare part</th>
<th>No. of needed spare parts</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Teflon tube</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Transfer screw Ø85</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Teflon tube</td>
<td>2</td>
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<tr>
<td></td>
<td>Transfer screw Ø85</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Gearbox motor screw holder (temperature holding screw)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Teflon tube</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Transfer screw Ø85</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Shredder kit</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Micro-wave Power supply complete</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Magnetron 2KW</td>
<td>1</td>
</tr>
</tbody>
</table>

FOURTH: Specification of SCBI and Incubator Kit

Biological Indicators

ProTest Self-Contained Biological Indicators for Steam. Each unit is made up of a plastic container with cap, a crushable glass ampoule with recovery media, and either a paper strip (for steam and EO) or borosilicate disc (for H2O2) inoculated with spores. ProTest is available for healthcare and industrial use.

ProTest Steam

Intended for use in steam 121°C gravity, 10 minutes at 132°C gravity, 3 minutes at 135°C flash gravity and 121-135°C prevacuum.

- 510(k) received for healthcare facilities
- Contains G. stearothermophilus spores
- 24-hour incubation

<table>
<thead>
<tr>
<th>Species</th>
<th>Min. Population</th>
<th>Qty/Box</th>
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<tbody>
<tr>
<td>G. stearothermophilus</td>
<td>1.0 X 10⁶</td>
<td>25</td>
</tr>
</tbody>
</table>
Incubator specification:

- Thirteen (13) individually numbered incubation cavities.
- Integrated thermometer for easy temperature reference.
- Activation cavity for activating (crushing) crushable self-contained biological indicators.
- 57°C temperature settings for steam
- Fast warm up time.

Incubator can be configured to work with most self-contained biological indicator unit.

<table>
<thead>
<tr>
<th>Electrical Ratings (for use with certified class 2 power supply)</th>
<th>Volts</th>
<th>12VDC</th>
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<tbody>
<tr>
<td>Watts</td>
<td>13.0</td>
<td></td>
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<tr>
<td>Amps</td>
<td>1500 mA</td>
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</tr>
<tr>
<td>Operating Range</td>
<td>Temperature</td>
<td>37°C / 57°C / 60°C</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Ambient Temperature</td>
<td>10°C - 35°C</td>
</tr>
<tr>
<td></td>
<td>Relative Humidity</td>
<td>20% - 80% Non-condensing</td>
</tr>
<tr>
<td>Conformance</td>
<td>CSA/C/US, CE, RoHS, FCC Part 15 Class A, ICES-003 Class A</td>
<td></td>
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</table>
Executive summary

AMB s.a. is a manufacturer and specialist of the medical waste treatment industry. We work closely with our customers to provide market-leading alternative medical waste treatment equipment – delivering quality; reliability; compliance and cost-efficiencies.

VALUE we provide competitive prices with customer-specific requirements, with further cost reduction and financing mechanisms in place where possible.

COMPLIANCE we offer products fully compliant with state and federal regulations.

SUPPORT our sales, professional drafting and engineering team works closely with all departments throughout the business – providing comprehensive levels of customer service, commercial, technical and administrative support.

CAPABILITY we are in business since 1947. Over the past 10 years, we have developed equipment for the medical waste management industry.

INNOVATION we provide a variety of innovative feature and services, including efficacy and maintenance monitoring equipment for our devices, tele-maintenance service, state-of-the-art control panel and much more.

ENVIRONMENT our range of environmental initiatives, including our projects for repurposing and recycling treated medical waste, minimises waste going to landfill and our carbon footprint.

“We have certified the Ecosteryl process almost everywhere in Europe, North America & South America, Russia, Asia ...

We are now leader in our industry in many countries over all five continents. I think we can attribute this success primarily to the advanced technologies implemented in our systems.”

Philippe Dufrasne, CEO

WHO WE ARE

AMB has over 10 years of experience in the commercial treatment of medical waste without burning. The company designed four patented systems which enable the treatment of medical waste without any polluted discharge, through a continuous microwave technology.

WHAT WE DO

AMB Ecosteryl designs and manufactures equipment that provide a safe and environmentally friendly solution to medium and large hospitals as well as service providers for the treatment of biomedical waste. Ecosteryl products have already processed hundreds of millions of kg of biological waste since its first installation in France.
ABOUT US

AMB is a private family group which was established in 1947 to design and produce special machinery for the extraction industries. Following the decline of the mining companies and the rise of the environmental sector, AMB moved into the development of new equipment and machinery to be used for recycling, recovery and processing of medical waste. By doing this, AMB contributes to maintaining a safe, healthy environment and promoting sustainable development.

Our technology was designed to handle a large variety of regulated medical waste, including hospital and laboratory waste, solid and liquid medical waste, human and animal pathological waste, sharp containers and prickly hospital waste, cultures and stocks, as well as any other waste listed in state and federal regulations as medical waste.

ECOSTERYL machines are well known worldwide for superior performance in safety, speed, reliability and flexibility. Leaders in France and several European countries, we have for clients some of the biggest environmental companies worldwide specialized in waste management and water business. We provide an alternative medical waste treatment technology in many countries around the world.

AMB s.a. is a Belgium based company located in Mons near the French border.

The business is centered on a design office, on a sales & administration department, R & D department and on three production workshops.

Our company has two branch offices, one for the North and South American markets, and the other the Asian markets.

Our network of agents and distributors helps to promote our products worldwide.
TABLE OF CONTENT

1. Automatic weighing & loading

2. Shredding

3. Continuous microwaves

4. Holding, treatment & final output

1. Automatic weighing & loading

*Optional on Ecosteryl 75

A container (240 to 770 liters) is installed on the handling system. The latter lifts up the container after weighing and dumps it in the loading hopper. All these operations occur automatically.

Via a hydraulic cylinder, the loading hopper opens automatically when a container arrives. The loading hopper has an air treatment vessel (optional on some models), which creates a vacuum when it is opened. This one prevents the dust from flying when the hopper is opened. The airflow is washed, disinfected, deodorized and filtrated over activated charcoal. The airflow is rejected outside only after this treatment. The treated airflow is of about 250 m³/h. The hopper also includes level indicators (hopper full and hopper empty).

2. Shredding

When the lid of the loading hopper is closed, the content of the loading hopper is gradually pushed by a hydraulic ram (optional) and the shredder is activated. A screen is placed under the latter to get a homogenous size under 20 mm diameter. The shredder is of the four-shaft type including an automatic anti-blocking device (current controlled) reversing of the direction of the operation of the two motors in case of blockage (but also cyclical) in order to unblock the unit and return it to the normal operation.

The homogenous waste falls to the under-mill hopper before passing to the processing screw, which brings it to the second phase of the process. This under-mill hopper also includes level indicators.
3. Continuous microwaves

The processing screw is of spiral design. The processing screw brings the products into the microwave oven where it is heated up to a temperature of 100°C. The time needed for transferring it into the processing screw is of about 3 min. The microwave-heating tunnel is composed of 2 boxes beam of 12 kW (one box only for Ecosteryl 125).

Each box beam includes 6 microwave generators with magnetrons of 2 kW (serial 250). The "Box Beam" patent covers the use of microwaves in stereo mode with controlled field polarization in a specially adapted recess. This makes it so possible to heat the products "to the core" with a rapid rise in temperature. The system provides for a temperature measurement at the Microwave outlet to check the treatment quality. A control system adjusts the operation of the equipment in order to maintain the desired temperature at the end of the zone.

4. Holding, treatment & final output

The waste enters the last hopper where its temperature is maintained.

The heat-insulated hopper is kept at its temperature level thanks to external heating resistors. The waste stays in this hopper for one hour so that the decontamination can be achieved.

At the end of the process, the waste leaves the equipment through an outlet screw (of the spiral type) in a container.

A programmable controller with a touch-screen allows the automatic operation, real-time monitoring, control and storage of the equipment operating parameters.
OUR PRODUCT LINE

AMB Ecosteryl Serial 75 is the cutting edge technology in hospital waste disposal nowadays. It has a 20 kW four-shaft shredder designed for the processing of sharps and prickly, syringes, needles and waste drums that hold up to 60L. It comes with a built-in motorized wheelie bin lifting and dumping system.

AMB Ecosteryl Serial 75

PRODUCT SPECIFICATIONS
• Capacity : up to 100 kg/hr (220 lbs/hr)
• Volume capacity : approx. 1200 L
• Dimensions (L x W x H) : 4.5m x 4.5m x 3m
• Weight : 4 tons
• Required floor space : 5 x 5.5m
• Minimum ceiling height : 3.5m
• Electric power consumption : 20-30 kWh
• Electrical connection power : 80 Amp – starter motor

PRODUCT DESCRIPTION
• Microwaves screw
• Heat-insulated waste screw
• Patented four-shaft shredder
• Patented microwaves generator
• Microwaves power: 8 KW
• Shredder power: 20 KW in 4 rotors
• Microwaves frequency: 2.450 MHZ
• Fail-safe technology with alarms
• Challenge (Quality Control) Protocol using SCBIs and incubator
• Weighing system (optional)
• Container lifting and dumping system (optional)

AMB Ecosteryl Serial 75 Plus

PRODUCT SPECIFICATIONS
• Capacity : up to 100 kg/hr (220 lbs/hr)
• Volume capacity : approx. 1200 L
• Dimensions (L x W x H) : 4.5m x 5.5m x 5m
• Weight : 4.5 tons
• Required floor space : 6 x 6.5m
• Minimum ceiling height : 5.2m
• Electric power consumption : 22-32 kWh
• Electrical connection power : 80 Amp – starter motor

PRODUCT DESCRIPTION
• Microwaves screw
• Heat-insulated waste screw
• Patented four-shaft shredder
• Patented microwaves generator
• Microwaves power: 8 KW
• Shredder power: 20 KW in 4 rotors
• Microwaves frequency: 2.450 MHZ
• Fail-safe technology with alarms
• Challenge (Quality Control) Protocol using SCBIs and incubator
• Weighing system (optional)
• Built-in container lifting and dumping system
OUR PRODUCT LINE

Ecosteryl Serial 125 and 250 are ideal for medical waste and hazardous waste disposal service providers. In the automatic mode, a one man operation will achieve up to 600 kg/hr (1320 lbs/hr) or approximately 8000 L of waste.

AMB Ecosteryl 125

DESIGNED FOR LARGE HOSPITALS OR SERVICE PROVIDER

PRODUCT SPECIFICATIONS
- Capacity: up to 175 kg/hr (385 lbs/hr)
- Volume capacity: approx. 2100 L
- Dimensions (L x W x H): 10m x 3.5m x 5.2m
- Weight: 10 tons
- Required floor space: 12 x 6m
- Minimum ceiling height: 6m
- Electric power consumption: 45–60 kWh
- Electrical connection power: 160 Amp – starter motor

PRODUCT DESCRIPTION
- Microwaves screw
- Holding hopper
- Patented four-shaft shredder
- Patented microwaves generator
- Microwaves power: 12 KW
- Shredder power: 37 KW in 4 rotors
- Microwaves frequency: 2.450 MHZ
- Fail-safe technology with alarms
- Challenge (Quality Control) Protocol using SCBIs and incubator
- Treatment parameters are continuously monitored and maintained during the process
- No intermediate handling of medical waste during the process

AMB Ecosteryl 250

DESIGNED FOR SERVICE PROVIDER

PRODUCT SPECIFICATIONS
- Capacity: up to 300 kg/hr (660 lbs/hr)
- Volume capacity: approx. 3600 L
- Dimensions (L x W x H): 12m x 3.5m x 5.2m
- Weight: 12 tons
- Required floor space: 15 x 6m
- Minimum ceiling height: 6m
- Electric power consumption: 60–80 kWh
- Electrical connection power: 240 Amp – starter motor

PRODUCT DESCRIPTION
- Microwaves screw
- Holding hopper
- Patented four-shaft shredder
- Patented microwaves generator
- Microwaves power: 24 KW
- Shredder power: 37 KW in 4 rotors
- Microwaves frequency: 2.450 MHZ
- Fail-safe technology with alarms
- Challenge (Quality Control) Protocol using SCBIs and incubator
- Treatment parameters are continuously monitored and maintained during the process
- No intermediate handling of medical waste during the process
OUR ADVANTAGES

EFFICIENT

Repeatability – Highly accurate operations
Simplicity – Ease of operation, training and maintenance
Reduces the volume to landfill by up to 80% and weight reduction up to 10%
Continuous process with high productivity

TECHNOLOGICAL

Powerful shredding technology: up to 37 kW, low speed, four-shaft, anti-blocking system
Output by-product is landfill ready, inert, unrecognisable and recyclable
Improve efficiency and safety with our remote industrial automation equipment.
Quickly disassembled, may be easily relocated, installation in 24-48h

SAFE ENVIRONMENT

Safety shutdown with any unexpected operation
Safe, secure and reliable process by monitoring
Real-time monitoring and efficiency control
Improved safety – allows good occupational safety and health practices

ENVIRONMENTAL

No chemical emission, fumes, gas or vapor. No water used or rejected
Cutting edge technology with virtually no environmental impact
Low noise, odor and other inconvenience
Bacteria reduced by 6 log 10 => 99.9999%
CASE STUDIES - SERVICE PROVIDER

GLOBAL SOLUTIONS FOR SERVICE PROVIDER

We offered a turn-key solution to a nation-wide medical waste company that provides medical waste management services. They ensure medical waste removal is in accordance with all state and federal guidelines, and do so at an affordable price.

The company wanted to reduce its environmental footprint and make savings with lower operational costs. We replaced its autoclaves in two phases with three Ecosteryl units. The company has been able to reduce its operating cost by 29% after one year and increase its profits after three years.

PROJECT DETAILS

<table>
<thead>
<tr>
<th>Number of clients</th>
<th>434</th>
</tr>
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<tbody>
<tr>
<td>Tonnage collected and treated per annum</td>
<td>3200 TONS</td>
</tr>
<tr>
<td>Number of trucks</td>
<td>54</td>
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<tr>
<td>Previous technology used in the plant</td>
<td>3 x Advanced autoclaves with shredder</td>
</tr>
<tr>
<td>Actual technology used in the plant</td>
<td>2 x AMB-Ecosteryl 250</td>
</tr>
<tr>
<td>Productivity gained in %</td>
<td>44%</td>
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<tr>
<td>Treatment cost per ton (including amortization)</td>
<td>$113 per ton</td>
</tr>
<tr>
<td>Savings per year</td>
<td>$298,500</td>
</tr>
</tbody>
</table>

Benefits

- Lower operating costs
- Improvements with compliance and monitoring
- Reduced transportation costs
- Higher profits and better return on investment
ON-SITE INSTALLATION IN HOSPITAL

HEALTHCARE FACILITIES usually require accurate monitoring records of their waste. Hospitals and clinics also look to reduce their regulated medical waste output with better segregation and tracking practices.

To improve your on site practices for infection control, AMB proposes a turnkey solution for hospitals administration. With the Ecosteryl on-site technology, it is finally possible to manage your medical waste in the confines of the hospital and save hundreds of thousands of dollars.

PROJECT DETAILS

| Number of beds | 450 BEDS |
| Number of patients per year | 25,526 |
| Quantity of medical waste generated per year | 310 TONS |
| Previous technology used in the plant | None (service provider) |
| Actual technology used in the plant | 1x AMB Ecosteryl 75 Plus |
| Return on investment (in years) | 6 years |
| Treatment cost per ton (including amortization) | $319 per ton |
| Savings per year | $66,500 |

Benefits

- Reduced transportation costs
- Reduction of waste packaging (unnecessary external transfers)
- Lower overall cost
- More accurate infection control and monitoring
### SPECIFICATIONS

#### AMB-SERIAL 75-ECOSTERYL
- **Capacity**: up to 100 kg/hr
- **Dimensions (L x W x H)**: 4.5M x 4.5M x 3M
  - 4.5 M x 5.5M x 5M (Serial 75+)
- **3-Phase 380V/440V/480V**
- **Required Floor Space**: 28M2
  - 39 M2 (Serial 75+)
- **Volume Capacity**: 1200 L
- **Electricity**: 20-30 KWH / 22-32 KWH (Serial 75+)
- **Pre-Shredding with Core-Heating Microwave Irradiation Technology**
- **System is Fully Automated and Controlled by PLC with Remote Monitoring**
- **Four-Shaft Shredder with Screen (20 KW)**

#### AMB-SERIAL 125-ECOSTERYL
- **Capacity**: up to 175 kg/hr
- **Dimensions (L x W x H)**: 10M x 3.5M x 5.2M
- **3-Phase 380V/440V/480V**
- **Required Floor Space**: 72M2
- **Volume Capacity**: 2100 L
- **Electricity**: 45-60 KWH
- **Pre-Shredding with Core-Heating Microwave Irradiation Technology**
- **System is Fully Automated and Controlled by PLC with Remote Monitoring**
- **Four-Shaft Shredder with Screen (37 KW)**

#### AMB-SERIAL 250-ECOSTERYL
- **Capacity**: up to 300 kg/hr
- **Dimensions (L x W x H)**: 12M x 3.5M x 5.2M
- **3-Phase 380V/440V/480V**
- **Required Floor Space**: 90M2
- **Volume Capacity**: 3600 L
- **Electricity**: 60-80 KWH
- **Pre-Shredding with Core-Heating Microwave Irradiation Technology**
- **System is Fully Automated and Controlled by PLC with Remote Monitoring**
- **Four-Shaft Shredder with Screen (37 KW)**
OUR FEATURES

FEATURES

Monitoring computer
Keeps comprehensive records of all waste movements. Ecosteryl units can be monitored via an internet or phone connection relaying up-to-date information at each stage.

Environmentally friendly
Shredded waste is reduced to as little as 1/5 its original volume, without neither emitting harmful substances, nor rejecting wastewater nor using water. Ecosteryl is a chemical-free process that uses only electricity.

Installation in 24-48 hours
The equipment can be installed in less than two days and disassembled easily if a relocation of the equipment is required.

Operator Safety
Equipped with safety systems and automatic safety mechanisms. Automatic lift/load system eliminates double and triple waste handling. On board digital controls (automated PLC) / self diagnostics to eliminate worker exposure.

APPLICATION TYPES

Ecosteryl systems are designed to treat regulated medical waste that has been generated by healthcare facilities.

The cutting edge technology uses a patented microwaves disinfection system with a powerful four-shaft shredder designed specifically for hospital waste.

The process was designed to handle a large variety of regulated medical waste, including hospital and laboratory waste, solid and liquid medical waste, human and animal pathological waste, sharps and prickly hospital waste with their containers, cultures and stocks, as well as any other waste listed in state and federal regulations as medical waste.
### APPROVALS / CERTIFICATIONS

#### INTERNATIONAL CERTIFICATIONS

<table>
<thead>
<tr>
<th>Certification</th>
<th>Validity</th>
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<tbody>
<tr>
<td>European Directive (CE) Quality Assurance System</td>
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</tr>
<tr>
<td>ISO 9001:2008 - Quality Management Systems</td>
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</table>

#### APPROVALS

<table>
<thead>
<tr>
<th>Approval</th>
<th>Validity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMB Ecosteryl systems are approved for use in the treatment of regulated medical waste in several US states including Florida, New York and California.</td>
<td>✔️</td>
</tr>
<tr>
<td>Ecosteryl is registered and approved by the Russian Federal Service of Health Care and Social development control.</td>
<td>✔️</td>
</tr>
<tr>
<td>The AMB process has been tested by the Pasteur Institute and approved under the supervision of the Ministry of Health and the Ministry of the Environment by the French Higher Council of Public Health.</td>
<td>✔️</td>
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#### EFFICIENCY TESTING

<table>
<thead>
<tr>
<th>Testing</th>
<th>Validity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasteur Institute (ISO/IEC 17025 International Standard Accredited Laboratory - Accreditation No. 1-2215)</td>
<td>✔️</td>
</tr>
</tbody>
</table>

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ECOSTERYL : MEDICAL WASTE DISPOSAL SOLUTIONS
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