



MEDICAL WASTE MANAGEMENT

ECOSTERYL: A Green and Effective Disinfection Solution for Hospital Waste Management

AMB has improved the process for the disinfection of medical waste by using only electricity. Ecosteryl units are characterized by an optimal efficiency: a powerful pre-shredding combined with a patented microwave continuous-flow system makes it possible to achieve an in-depth treatment.

Ecosteryl is the answer to the waste removal problems faced by hospitals, challenges that have become even tougher due to global virus outbreaks and the strengthening of hygienic and worldwide environmental rules.

“ A green and 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 Ecosteryl Solutions in the Context of Coronavirus Outbreak

- **Dry heat** technology exposing medical waste to **high frequency** (2450 MHz) and **high temperature** (100°C) for a **prolonged period** (60 min).
- Technology meeting the needs of "megacities" and large quantities of waste.
- Units located and assembled in **24 hours** on a flat concrete floor (**only electrical connection** is needed).
- **Easy installation** in the vicinity of the major medical waste collection sites.
- **Minimization** of personnel in contact with the waste.
- Possible **air shipment**.
- **Complete training** for operators and maintenance agents prior to conditioning.

Ecosteryl Main Advantages

- Highly **powerful shredder** on four shafts with a filter screen and unbreakable elements management.
- **Continuous thermal processing** that uses no steam or water, ensures **zero emissions** and does not release any liquids in the atmosphere, no radiation either.
- Reduces the volume to landfill by up to **80%** and weight reduction up to **10%**.
- Once treated through the system, the hazardous medical waste falls into the same category as **household rubbish**, hereby cancelling out any risk of contamination.

Specific Units Available Ex Stock for Health Emergency

- Ecosteryl 250: **5** units.
- Ecosteryl 125: **3** units.
- Ecosteryl 75: **2** units.

Immediate shipment upon formalizing acquisition process

Other units: 12 weeks lead time

PRODUCT SPECIFICATIONS | ECOSTERYL 75

AMB offers the units Ecosteryl Serial 75 and Ecosteryl Serial 75 Plus to treat from **75 to 100 kg/h**. Designed for the processing of any biomedical waste, including sharps, syringes, needles and 60L plastic containers. The only difference is a built-in motorized wheelie bin lifting and dumping system included in the model Ecosteryl 75 Plus.

AMB ECOSTERYL 75



AMB ECOSTERYL 75 PLUS



PRODUCT SPECIFICATIONS

- Capacity : up to 100 kg/hr (220 lbs/hr)
- Volume capacity : approx. 1200 L
- Dimensions (L x l 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)

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

PRODUCT SPECIFICATIONS | ECOSTERYL 125 - 250

Ecosteryl Serial 125 and 250 are ideal for the processing of large quantities of medical waste. In a fully automatic continuous process, a one-man operation will achieve the treatment of up to **7 tons** of hospital waste per day.

AMB ECOSTERYL 125



AMB ECOSTERYL 250



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

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