



# STERILIZERS

**Don't Compare the Price  
Compare the Quality**

## Silent Features

- ✓ **ETO Sterilization reduce microbiological load and increase life span of material.**
- ✓ **Modular construction of chamber.**
- ✓ **Model is available from 0.5 Cubic Meters to 40 Cubic Metres.**
- ✓ **Easy to operate.**
- ✓ **Fully automatic operation based on PLC control.**
- ✓ **Semi Automatic  
(Pneumatically Operated Ball Valve) Control.**
- ✓ **Contact parts are SS 304 / 316.**
- ✓ **Process time about 8 hours.**
- ✓ **IQ/OQ/DQ documentation can be offered on demand. (OPTIONAL).**
- ✓ **It is useful for prevention of micro biological contamination useful for treatment of spices, dried nuts, Foods Packed cereals etc.**
- ✓ **Machine is suitable to Sterilize Surgical Medical Device products like I.V. Sets, Disposable Syringes, Disposable Surgical Set, catheter, Urine Bag etc.**



| Model                       | RE/ES/ 2.5                          | RE/ES/4.5                           | RE/ES/8                             |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Working Capacity in Cu. Ft. | 2.5                                 | 4.5                                 | 8                                   |
| Working Volume              | 70 Liters                           | 125 Liters                          | 225 Liters                          |
| Chamber Size                | 12" (W) x 12" (H) x 30"             | 12" (W) x 12" (H) x 54" (D) OR      | 18" (W) x 18" (H) x 42" (D) OR      |
| Sterilant Gas               | 40 grams cartridge                  | 100 grams cartridge                 | 170 grams cartridge                 |
| Sterilization Cycle         | Warm & Cold Cycles are possible     | Warm & Cold Cycles are possible     | Warm & Cold Cycles are possible     |
| Aeration                    | In-built aeration facility provided | In-built aeration facility provided | In-built aeration facility provided |
| Utility                     | Compressed Air (100 psig)           | Compressed Air (100 psig)           | Compressed Air (100 psig)           |
| Power Supply                | 1 K.W.                              | 2 K.W.                              | 2.5 K.W.                            |
| Power Voltage               | 220 volts, Single Phase, 50 Hertz   | 220 volts, Single Phase, 50 Hertz   | 220 volts, Single Phase, 50 Hertz   |

- **Power voltage can be adjusted as per customer's domestic power voltage requirements.**
- **Rights of technical improvements & modification reserved.**
- **Illustrations & dimensions are shown for information purpose only.**

**Note : Customized Size Also Available on your Request**

# ETHYLENE OXIDE INDUSTRIAL ETO STERILIZERS

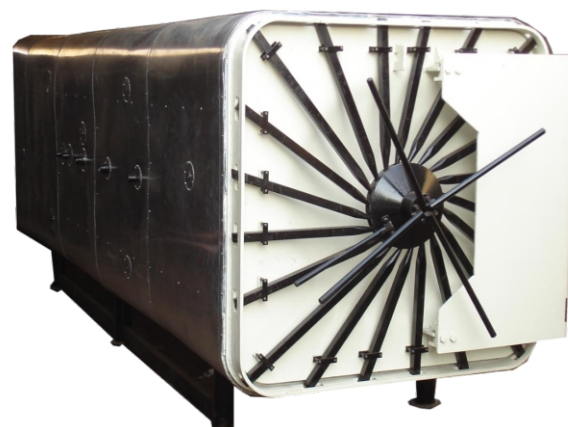


## Main System

- ✓ Sterilization Chamber
- ✓ Heating And Hot Water Circulation System
- ✓ Vacuum System
- ✓ Humidification System
- ✓ EO Gasifying System
- ✓ Electrically Operated Double Automatic Sliding Doors And Air-inflation Sealings, Pair
- ✓ Residual Gas Treatment System
- ✓ Control Panel Unit Include Alarm & safety System,
- ✓ Recorder & Printer
- ✓ Data logging To Computer Environment And Traceability Software

## Specification

1. MATERIAL OF CASE BODY: STAINLESS STEEL, AISI 304 polished
  2. STERILIZING TEMPERATURE: 0-100 °C
  3. STERILIZING PRESSURE: -0,8 / +0,8 BAR
  4. PRE-VACUUM: -0,8 BAR
  5. STERILIZING HUMIDITY: 20-100%RH
  6. EO CONCENTRATION: 250-1200 mg/L
  7. STERILIZING TIME: 0,5-12 HOURS
  8. AERATION TIME: 0-99 HOURS
  9. TIMES OF AIR CHANGE: 0-99
  10. ETHYLENE OXIDE WASTE GAS TREATMENT: STANDARD
- STEAM GENERATOR: 28 kW



| MODEL  | SIZE (IN FOOT) | SIZE (IN INCH) |
|--|----------------|----------------|
| RE/IES/72  | 3 X 3 X 6      | 36 X 36 X 72   |
| RE/IES/96  | 4 X 4 X 8      | 48 X 48 X 96   |
| RE/IES/120   | 5 X 5 X 10     | 60 X 60 X 120  |
| RE/IES/240   | 6 X 6 X 20     | 72 X 72 X 240  |
| Note: Customized Size Also Available on your Request |                |                |

# HORIZONTAL HIGH-PRESSURE AUTOCLAVE



## Features

- ✓ Cylindrical / Rectangular design
- ✓ Stainless steel interior and exterior
- ✓ ISI marked flange / immersion heating elements
- ✓ Working pressure 15 psi to 20 psi
- ✓ Standard temperature 121°C/134°C
- ✓ Silicon rubber door gasket
- ✓ Digital Temperature controller
- ✓ Digital Timer and alarm (buzzer)
- ✓ Automatic pressure control switch
- ✓ Reliable steam pressure gauges
- ✓ Vacuum breaker and steam trap valve
- ✓ Brass safety valves
- ✓ Viewing glass water level check
- ✓ Triple walled construction
- ✓ Automatic water level cut-off
- ✓ Powder coated / chrome plated MS Stand

## HORIZONTAL CYLINDRICAL HIGH PRESSURE AUTOCLAVE

| Model No.   | Die.x Height (MM) | Volume (Liters) |
|-------------|-------------------|-----------------|
| RE/HPHV/75  | 400 X 600         | 75              |
| RE/HPHV/100 | 400 X 750         | 100             |
| RE/HPHV/180 | 500 X 900         | 180             |
| RE/HPHV/250 | 500 X 1200        | 250             |



## HORIZONTAL RECTANGULAR HIGH-PRESSURE AUTOCLAVE

| Model No.    | Die .x Height (MM) | Volume (Liters) |
|--------------|--------------------|-----------------|
| RE/HPRA/243  | 450 X 600 X 900    | 243             |
| RE/HPRA/324  | 600 X 600 X 900    | 324             |
| RE/HPRA/810  | 600 X 900 X 1500   | 810             |
| RE/HPRA/1458 | 900 X 900 X 1800   | 1458            |



**Note : Customized Size Also Available on your Request**

# VERTICAL AUTOCLAVE RADIAL AND KNOB LOCKING



## Silent Features:

- ✓ Strong Metal Body With Stainless Steel Chamber
- ✓ Automatic Sterilization And Control Monitoring
- ✓ Automatic Purging System Through Solenoid Valve
- ✓ With Automatic Stream Release After Sterilization
- ✓ Low Water Indicator In Display For & Element Safety
- ✓ Digital Temperature Controller Cum Indicator

## Optional Features:

- ✓ Double Wall & Triple Wall
- ✓ Heavy Gauge Wing Nuts For Perfect Locking AS Standard & Radial Locking Mechanism As Optional
- ✓ Data Record & Printing



Vertical Autoclave Knob Locking



Vertical Autoclave Radial Locking

| Product Code | Dia. x Height   | Volume     | Watt |
|--------------|-----------------|------------|------|
| RE/VA/32     | 300 MM X 450 MM | 32 Liters  | 2 Kw |
| RE/VA/75     | 400 MM X 600 MM | 75 Liters  | 4 Kw |
| RE/VA/125    | 450 MM X 750 MM | 125 Liters | 5 Kw |
| RE/VA/175    | 550 MM X 750 MM | 175 Liters | 6 Kw |

**Note : Customized Size Also Available on your Request**



# ULTRASONIC AND MEGASONIC PRODUCTS



## ULTRASONIC CLEANER AND SURFACE TECHNOLOGY

One stop solution offering Ultrasonic bath and ultrasonication products. An Ultrasonicator works on the principal of ultrasound frequency (usually 20-40 KHz). Here, Electrical energy is converted into ultrasound waves by means of ultrasonic transducers.

## Ultrasonic cuts down cleaning time by up to 90%!

Ultrasonic Cleaner is based on Cavitation effect caused by high frequency ultrasonic wave vibration signal in fluid. Microscopic bubbles are formed and they implode violently that cause Cavitation, which gives out great impact to the cleaning subject and provides an intense scrubbing action on the surface of cleaning subject. Additionally, the bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently.

## Applications:-

- ✓ Electronic Industry for delicate parts
- ✓ Hospitals and Medical Facilities
- ✓ Auto Industry for rugged parts
- ✓ Industrial Manufacturing
- ✓ Jewelry Industry for intricate parts
- ✓ Dental office and Laboratories

## Silent Features:-

- ✓ Ultrasonic Bath is designed with MOSFET/IGBT & latest Micro-controller base technology.
- ✓ Auto tuning with over load protection arrangement.
- ✓ Imported transducers are used in our ultrasonic bath / cleaner.
- ✓ Operating frequency of 23/33 KHz. Variable frequencies on demand.
- ✓ Digital tuning & Thermo dynamic design to ensure long life of generator.

## Volume Available:-

| Power  | Capacity (Litres) | Tank Size(LxWxH)   |
|--------|-------------------|--------------------|
| 50 W   | 1.5               | 150 x 100 x 100 mm |
| 60 W   | 2.0               | 200 x 100 x 120 mm |
| 100 W  | 3.5               | 230 x 150 x 100 mm |
| 150 W  | 5.0               | 250 x 150 x 125 mm |
| 200 W  | 6.5               | 300 x 150 x 150 mm |
| 250 W  | 7.5               | 250 x 200 x 150 mm |
| 300 W  | 9.0               | 300 x 200 x 150 mm |
| 500 W  | 23.0              | 450 x 350 x 150 mm |
| 1000 W | 30.0              | 500 x 300 x 250 mm |
| 1500 W | 72.0              | 600 x 400 x 400 mm |
| 500 W  | 17.0              | 450 x 250 x 150 mm |



- Above Model are available in both SS 304 and MS with powder coating.
- Custom sizes are available on request.
- Provided with drain valve

## Accessories:

- ✓ Tank Cover, Perforated Tray, Solid Tray, Mesh Basket, Flask Holder.
- ✓ Custom accessories supplied on request.

# STERILIZATION CONSUMABLES AND TESTING MATERIELS



Riya Engineering is trusted one stop solution for sterilization consumables & testing materials.

## STERILIZATION REELS

Medical grade paper available in both 60 GSM & 70 GSM.

Film is available in tinted Blue/Tinted Green, & Natural.

With two indicators for steam & ETO sterilization.

1. Multi sealing lines.
2. Reduces fiber peel and the risk of damage of sealing integrity while loading, stocking and transporting.
3. Non-Polluted Printing.
4. Certified Medical Grade Paper.
5. Meets EN868-5 Requirement of European Standards of sterilization
6. No Shrinkage - Retort Grade CPP Films used.
7. Print with water based ink, going as natural as we could be!



## ETO GAS CARTRIDGES

Shiv Machinery provides ethylene oxide gas cartridges which are engineered to provide safe systems that are easier to use than gas tank systems.

1. Easy to use, cost effective and accurate sterility.
2. Now a stage-leakage of sterilant gas.
3. Available in 40 Grams, 100 Grams, 170 Grams & 300 Grams capacity.
4. Safe to use.
5. Physical Stage:- Liquid



## TYVEK REELS

TYVEK REELS are specially designed for plasma sterilization process but it can be also used ETO sterilization as well as other low temperature sterilization procedures.

1. One side tyvek (100% high - density polyethylene fibers) / One side transparent films (easy to identify the packed items)
2. Durable / Tear Resistant / Light Weight & Flexible / Water-Resistant.
3. Unique Balance of strength & softness.
4. Size as per customers requirement.

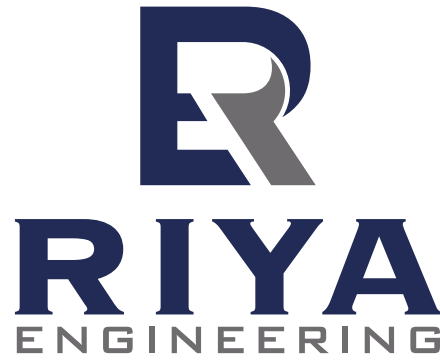


## BOWIE-DICK TEST PACK

Pre assembled for single use test, packs designed to evaluate the performance of the air removal system of pre-vacuum sterilizers operating at 134° c for 3.5 minutes & 121° c for 15 minutes.

1. Available in A4 size paper as well as in test pack kit.
2. Disposable ready to use test packs
3. Designed for STEAM Sterilization at 134° c for 3.5 minutes & 121- c for 15 minutes.
4. Accurate Color indicator changes.
5. Can be kept as permanent record.





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