

YORLAB[®] AUTOMATIC H.P.H.V. RECTANGULAR HORIZONTAL STERILIZER **Model No.: YSL / YSU-608**

Specifications:

Construction :

- The Chamber is sq./rectangular in shape constructed of heavy duty stainless steel 304/316 door and jacket of stainless steel 304 (316L or 316Ti-optional)
- The Pipes and fittings of stainless steel and bronze, the valves are ball type. Each sterilizer is mounted on a M.S/S.S sturdy stand.
- The outside paneling is made of M.S Powder coated or S.S to give elegant look. Hinged panels on sider makes it friendly for service purpose.
- All other construction details are as per IS 3892 Part 1 199.

Design :

- Autoclave (YSL/YSU-608) is designed as per international standard.
- Chamber of the autoclave is tested for hydraulic test pressure, performance as per BS & IS standards.
- Working pressure of autoclave is from 1.2 to 2.1 kg. cm² and vacuum upto 26"HG (with built in vacuum pump arrangement).
- Door gasket is expansion type silicon and jointless.
- The heating system provided is energy efficient and reduces running cost to great extent.
- Sterilization process is controlled by programmable logic controller with high accuracy & takes care of all user requirements.

Pulsating Deep Vacuum :

- High efficiency vacuum pump for mechanical air removal for excellent steam penetration even in fabric loads.
- Post sterilization vacuum drying treatment to ensure the load is dry on unloading.
- The chamber is designed and tested as per American Society of Mechanical Engineers standards.

Doors:

- Available Single and double door model offers the customer two door options - hinged door and automatic sliding door (Optional).
- All doors have stainless steel contact parts and temperature resistant silicon rubber gasket.
- Recording System (Optional)
- Single point strip chart recorder for recording the process temperature, date and time.

Safety:

- Door safety to prevent starting of the process unless the door is closed and opening of the door when the chamber is pressurized (optional).
- Insulated chamber to avoid scalding to the operator.
- Safety valves for over-pressure safety.



- Pressure vessels hydro-tested for maximum quality assurance.
- Provided with two locks one automatic and another manual.
- The automatic lock operates when pressure gauge reads 0.30-0.37kg/cm² in the chamber

Salient Features :

- Accurate in sterilization time and temperature.
- Door interlocks in case of double door sterilizer.
- Over heat protection
- Excess pressure safety valve.
- Self Diagnosis fault message.
- Safety against electric overload.
- Visual and audio alarm for easy operation.
- Process online print for records.
- Assured sterilization followed by complete drying of load.

Sources of Steam Generation :

Following combination of heating models are available.

- Electricity operated
- Steam operated (Optional)
- Combination of electric & steam operation.

Steam Generator:

- A stainless steel electric boiler is provided under the shell with interconnecting steam pipes.

To be continue...

Continued on.....

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- The boiler is supplied with 6 KW immersion heaters mounted on stainless steel plate and electric controls would comprise of an air break contractor, automatic pressure controller, low water protection...
- The boiler is also additionally provided with one independent spring - loaded safety valve and a pressure gauge.
- The boiler also incorporates a gauge glass assembly with protector, water drain and water inlet valves are also provided.

Other Features :

- Two Nos. mechanical ejectors
- Self Sterilizing vacuum drier
- Safety valve spring loaded and vacuum breaker
- Screen plug and Dial Thermometer for chamber's discharge line which is provided with steam trap and swing check valve
- Manual single point operation to operate manually as per IS 3829 Part I (Optional).
- Door safety - when the chamber is under pressure self locking device automatically locks and unlocks when chamber pressure falls below 0.35 k.g./cm².
- Built in steam generator made of S.S. 304 with Low water cut out water level indicator self locking gauge glass valve.
- The equipment is provided with S.S. 304 railing and carriage with MS Trolley (Optional).
- Provided with settable, vacuum system, low water cut off system.
- Suitable to run on inbuilt electric Boiler as well as from centralised steam supply available near to equipment @ 2.1 to 2.5 kg/cm²
- Working temperature 134° C.

Automatic Process Control :

- Microprocessor based programmable logic controller is used to control the Process.
- Manual operation is also provided to avoid inconvenience in case of automation failure (Optional).

Programs Provided :

- Liquid cycle at 121°C
- Instrument Cycle 134°C
- Pre-Vacuum pulsating cycle
- Vacuum Leak Test.
- Bowie Test
- Flexible cycle from 105 to 134°C to suit user requirement. Utilities & Environment Conditions
- Supply Voltage 415 V, 3 Phase, 50Hz, for power refer chart
- Feed water : Soft water/DM Water/Good Water.
- Temperature range of +5°C to +45°C
- Maximum relative humidity of 80% for temperatures upto 31°C, decreasing linearly to 50% at 40°C.
- Main supply voltage fluctuation of + 5% of nominal.
- Provided with all piping connectors of SS:304

Sizes available:

Width (mm)	Length (mm)	Height (mm)	Electric Load (K.W.)
450	450	900	18
600	600	1200	18
600	900	1200	36
910	910	1200	36
600	900	1500	36

Other sizes as per customer requirement.

Other Optional Accessories :

- Sterilization Tray.
- Sterilization Basket.
- Carriage.
- Transfer Trolley.
- Air Compressor
- Audio visual alarm for low water level.
- Auto feed water system.
- Temperature recorder.
- Thermograph or Printer for documentation Others as per requirement of the customer.