

YORLAB® H.P.CYLINDRICAL HORIZONTAL STERILIZER **Model No.: YSL / YSU-605**



Specifications:

Construction:

- The Chamber is cylindrical in shape constructed out 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 panelling is made of M.S Powder coated or S.S to give elegant look.
- Hinged panels on sides makes it friendly for service purpose.
- All other construction details are as per IS 3892 Part 1.

Design :

- Autoclave (YSL/YSU-605) are 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.

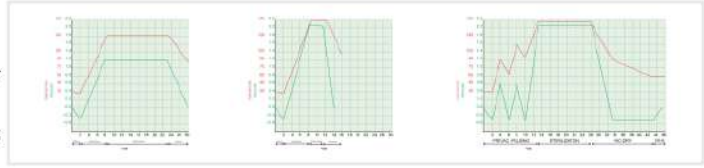
Safety :

- 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...

To be continue...

Continued on.....

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- Pressure vessels hydro-tested for maximum quality assurance.
- Provided with two locks one automatic and another is manual.
- The automatic lock operates when pressure gauge reads 0.30-0.37kg/Cm²d 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.
- Electrically 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.
- The boiler is supplied with 6 KW immersion heaters mounted on stainless steel plate and electric controls would comprise of an air break contactor, automatic pressure controller, low water protection.
- The boiler also additionally provided with one independent spring - loaded safety valve and a pressure gauge.
- The boiler is 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 vacuum system, low water cut off system.
- Suitable to run on inbuilt electric Boiler as well as from centralized steam supply available near to equipment @ 2.1 to 2.5 kg/cm²
- Working temperature 134°C.
- Utilities & Environment Conditions :
- Supply Voltage 415 V, 3 Phase 50Hz power.
- 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
- 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.

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 users requirement. Sizes available :

	Dia	x	Depth	Load
•	400	x	600 mm	6 kw
•	400	x	1100 mm	9kw
•	500	x	900 mm	9kw
•	500	x	1200 mm	9kw

Other sizes as per customer requirement

Other Optional Accessories :

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