

# LT-GEN

## Pure Steam Generators



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## GENERAL INFORMATIONS

The LT Pure Steam Generators are used for the automatic production of pure steam at a selected temperature or pressure for the purpose of sterilization.

The LT Pure Steam Generators provide pyrogen-free, sterile steam to autoclaves and similar

equipment used in pharmaceutical plants, hospitals, laboratories, and research facilities.

Pure steam generator design incorporates the thermal siphon, high-velocity evaporator complete with centrifugal baffle section designed to remove

minute entrainment including pyrogens. Steam is further purified by a cyclone separator which separates water droplets from the steam before it passes into the distribution system.



## CONSTRUCTION OF LEXA-GEN

LEXA-GEN Pure Steam Generators are constructed with gaskets and welds where possible, a double tube sheet in the base of generator, and flanged, o-ring seal connections on the separator base. Heat exchange surfaces scale only on the exterior so the

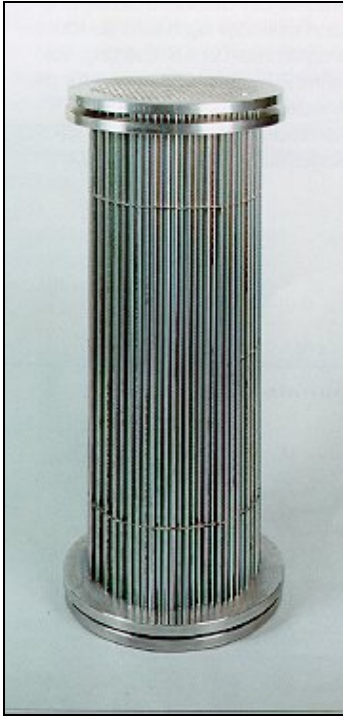
unit is easily inspected and cleaned. All units are provided with feedwater pre-heater PHE and booster pump, if required.

Fully automatic controls include steam supply pressure regulating valve to maintain process steam

pressure, safety valve, an override pressure controller, automatic steam and feedwater valves, and a level control to maintain proper feedwater level in the evaporator. An automatic drain valve may be provided as an option with a pressure sensing switch.



## DESIGN PARAMETERS



### Sterile Pyrogen Free Steam Cleaning and Sterilizing

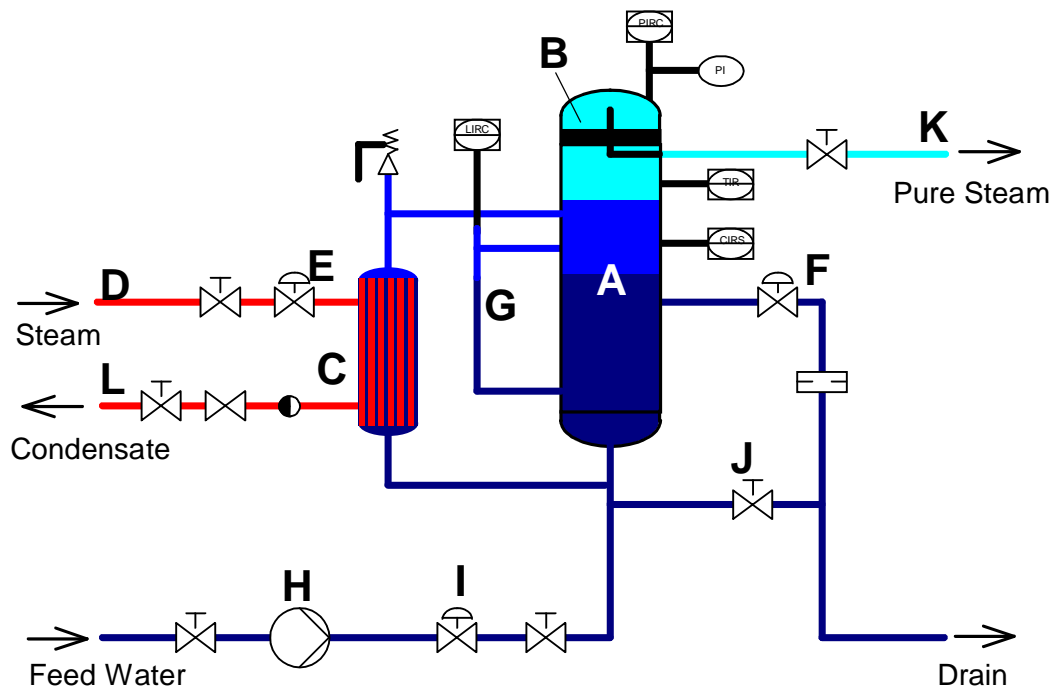
- Thermevap High Velocity Design
- Meets FDA (cGMP) Guidelines
- Double Tube Sheet Evaporator
- Titanium Tube Bundle - Option
- ASME Code Stamped Pressure Vessels
- Insulated Pressure Vessels - Option
- 316L & 316 Stainless Steel
- Designed to Conserve Energy & Space
- No Moving Parts
- Fully Automatic
- Standby Feature

Pure Steam Capacity at 2.5 bar Pure Steam Pressure												
Type / Capacity		LG 100	LG 150	LG 200	LG 250	LG 300	LG 500	LG 750	LG 1000	LG 1500	LG 2000	LG 3000
Heating	3.0	70										
Steam	4.0	95	105	150	175	210						
Pressure	5.0	100	150	200	250	300	400	600	680	1020		
	6.0	125	180	250	310	375	500	750	850	1300	1700	2550
	8.0	150	220	300	365	440	580	880	1000	1500	2000	3000
	12.0	180	370	360	450	540	720	1100	1200	1300	2400	3700
	16.0	200	300	400	500	600	820	1200	1400	1800	2800	4200
Supply Value		DN 32	DN 32	DN 40	DN 40	DN 50	DN 65	DN 65	DN 80	DN 100	DN 125	DN 125
Dimension												
Width	mm	1200	1200	1200	1200	1200	1350	1500	1500	1500	2000	2000
Depth	mm	1000	1000	1000	1200	1200	1200	1250	1250	1300	1300	1500
Height	mm	2800	2800	2800	2800	2800	3000	3000	3000	3000	4500	4500
Empty Weight	kg	300	350	400	450	500	600	800	1000	1500	2000	3000

**Feed Water Capacity: Steam Capacity +around 20%**

## LAYOUT DRAWING

- |   |   |   |                   |
|---|---|---|-------------------|
| A | Column with baffle and cyclone droplet separation | H | Feed water pump   |
| B | Demister  | I | Feed water valve  |
| C | Heat exchanger, tubular                           | J | Drain             |
| D | Steam   | K | Pure steam outlet |
| E | Regulating valve                                  | L | Condensate        |
| F | Automatic reduction of salt                       |   |                   |
| G | Level controller                                  |   |                   |



## INSTALLATION AND DELIVERY

The Generator is delivered according to ASME Code U-Stamp pressure vessel code, including manual in English.

Due to the compact design and with the feed water pump mounted in the frame the Generators are easy to install. After connection of the supplies and drain they are ready for operation.

## OPTIONAL EQUIPMENT

The equipment, valves and control systems of the still can be adapted to your internal factory standards and/or special requests.

Other options than the below listed can be offered if requested.

### **DOUBLE TUBE SHEET OF THE HEAT EXCHANGER**

The heat exchanger built with double tube sheets, drawn tubes and detection of leakage.

### **FEEDWATER BOOSTER PUMP**

Incorporated in the frame of the still. Ready mounted and connected to the automatic control.

### **PNEUMATIC VALVES**

Feed and cooling water pneumatic valves instead of solenoid valves.

### **DISPLAY OF PROCESS TEMPERATURES**

PT-100 sensors, hygienic, to measure the column temperature or any other process temperatures that are desired to indicate on a display. The temperatures can also be registered.

### **PURE STEAM CONDENSOR**

A small amount of Pure Steam is condensed and quality measured by conductivity.

### **FEEDWATER CONDUCTIVITY**

Measurement of feed water conductivity and, if required, registration. With adjustable alarm limit for high conductivity.

### **ELECTROPOLISHED SURFACES**

Electro polishing of all internal parts in contact with the pure steam.

### **REGISTRATION OF CONDUCTIVITY & PROCESS DATA**

Point recorder to register one or several values.

### **STAINLESS STEEL INSULATION PROTECTION (STANDARD)**

The column insulation protected by stainless steel sheet.

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