BIOPUREMAX

Bringing Technology to Pharmaceutical Water

Pure Steam Generation Systems for the Pharma and Biotech Industry

Biopuremax brings over 30 years of expertise in pharmaceutical water systems.
We specialize in PW/WFI/PS for the pharma and biotech industries.

Pure Steam Generator

Pure Steam Generation System

Biopuremax's Pure Steam Generation unit features pyrogen removal processes: advanced centrifugal separation and specialized separators with a unique purging system.
This ensures endotoxin reduction of more than 3 Log.

Biopuremax Pure Steam Generation system advantages

- Effective pyrogen removal
- Compact design
- Reduced complexity with inbuilt
- Non-Condensable Gas Removal
- Low Maintenance
- Easy operation
- CFR 21 part 11 and Annex 11 compatibility
- Meets USP, EP, JP and ANVISA standards

State-of-the-Art Pure Steam Generation system

Biopuremax Pure Steam Generator system uses tube-and-shell heat exchangers with falling-film evaporation, ensuring every drop of water reaches the needed temperature.
The separation of pyrogenic load is done by centrifugal action generated during upward flow of the steam.

Key Features:

- Double tube sheet for heat exchangers and pre-heaters
- Crevice-free construction to prevent bacterial growth
- Siemens/Allen Bradley PLC-based operation with interlocks and validated logic
- Comprehensive documentation package
- Full AISI 316L stainless steel construction
- Orbital-welded piping joints
- Pharma-grade PTFE, silicone gaskets
- Pure steam sampling with built-in heat exchanger
- Electro-polished piping with orbital welding and sanitary fittings
- Rockwool insulation, clad in AISI 304 stainless steel

PSG Model	Dimensions					Pure Steam Outlet Height	Output Capacity (Kg/Hr) @3 barg	Consumption Data @6 barg Industrial steam			Electricity (kW)
	Length mm	Depth mm	Height mm	Weight (Dry) Kg	Weight (Oper.) Kg			Steam Consumption KPH	Feed Water LPH 25°C	Cooling Water LPH 25°C	
100 PSGS	1375	1175	2700	450	540	2000	100	115	105	40	2
150 PSGS	1450	1250	2500	560	672	1745	150	175	157.5	40	2
300 PSGS	2100	1350	2800	600	720	890	300	345	345	40	2
500 PSGS	2100	1500	2950	770	924	1050	500	575	575	40	2
750 PSGS	2100	1500	3200	850	1020	1000	750	865	865	40	2
1000 PSGS	2050	1600	3350	940	1128	930	1000	1150	1150	40	2
1500 PSGS	2800	2000	4000	1350	1620	1950	1500	1800	1725	40	2
2000 PSGS	2950	2000	3850	1457	1749	1200	2000	2400	2300	40	2
3000 PSGS	2985	2715	4035	1500	1800	1380	3000	3600	3450	40	2

- **Compressed Air:** Flow of 5 CFM @ 6 Kg/cm2 pressure
- **Main Drain: 100–1500 PSGS:** Ø152 mm flange – 3" OD piping | **2000 PSGS:** Ø190 mm flange – 4" OD piping | **All other drains:** Ø108 mm flange – 2" OD piping
- **Weight:** Is approximate considering standard equipment

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