

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-5000



GLOBAL • WATER • SOLUTIONS

DESIGN FEATURES

- Thermo-syphon separator section creates max centrifugal force for elimination of remaining water droplets
- PID Level Control for optimal feedwater level control
- Double tubesheet evaporator and heat exchanger(s) for long term reliability
- New evaporator gasket design improves seal integrity and life
- Shell-side evaporation design ensures heat transfer surface will resist the formation of scale
- Submerged-tube, rising-film design eliminates dry tube "hot spots"
- 304 SST Frame and Supports
- Fully automated control, with central control system integration capability

UPGRADES

- Feedwater pump
- Feedwater conductivity monitoring
- Pure steam sample cooler
- Plant Steam control valve
- Electropolished feedwater and pure steam product contact surfaces
- Epoxy-coated carbon steel frame
- Insulation of all hot surfaces
- Validation (IQ/OQ) Package



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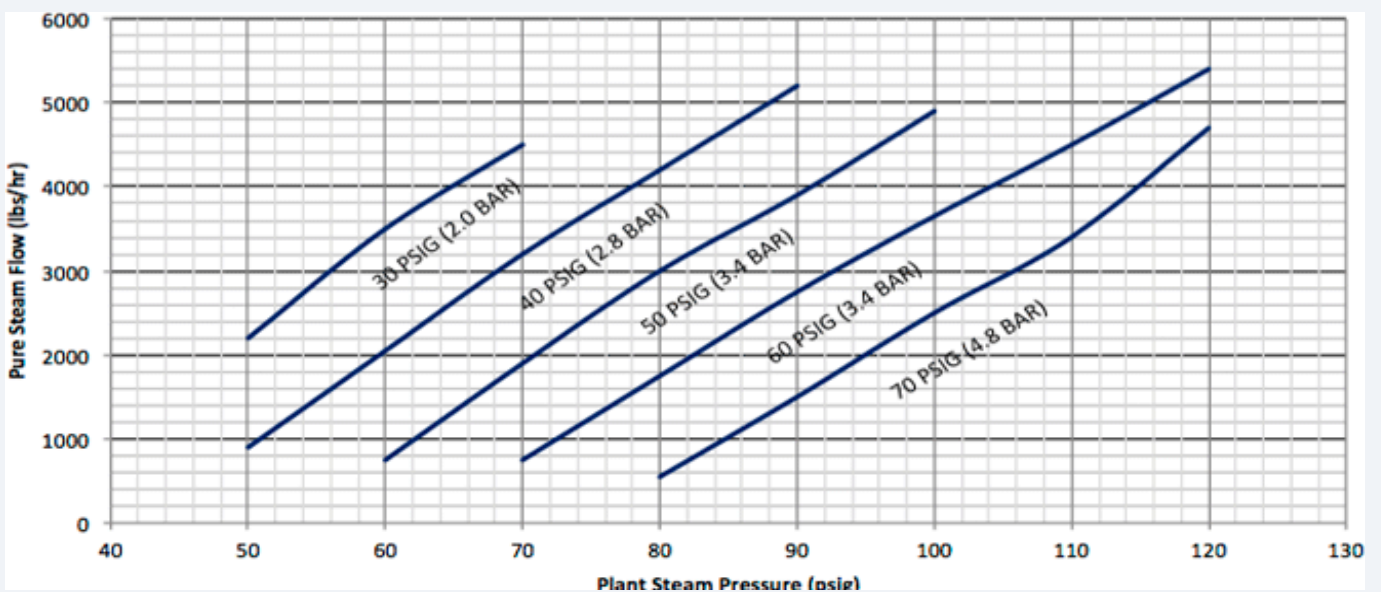
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PURE STEAM GENERATION



PSG-5000		
Nominal Capacity	5000 lbs/hr	2267 kg/hr
Design Type	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
Feedwater Quality	No Hardness, Chlorine, or Amines	
	Silica: <1ppm	Conductivity: <10 µS/cm

PLANT STEAM PRESSURE	PURE STEAM PRESSURE					
	PSIG (BAR)	30 (2.0)	40 (2.8)	50 (3.4)	60 (4.0)	70 (4.8)
50 (3.4)		2200	900			
60 (4.0)		3500	2050	750		
70 (4.8)		4500	3200	1900	750	
80 (5.5)			4200	3000	1750	550
90 (6.2)			5200	3900	2750	1500
100 (6.9)				4900	3650	2500
110 (7.6)					4500	3400
120 (8.3)					5400	4700



ASK ABOUT OUR OTHER PHARMACEUTICAL CLEAN WATER SOLUTIONS