

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-7500



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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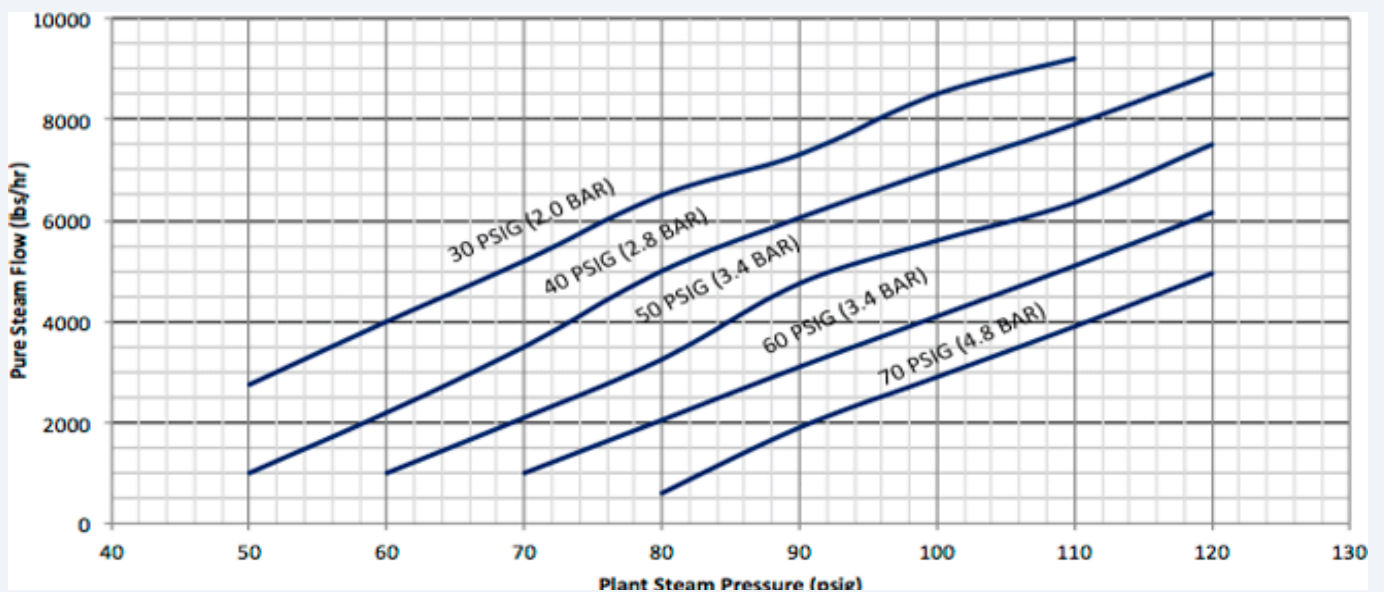
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PURE STEAM GENERATION



PSG-7500		
Nominal Capacity	7500 lbs/hr	3402 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)		2750	1000			
60 (4.0)		4000	2200	1000		
70 (4.8)		5200	3500	2100	1000	
80 (5.5)		6500	5000	3250	2050	600
90 (6.2)		7300	6050	4750	3100	1900
100 (6.9)		8500	7000	5600	4150	2900
110 (7.6)		9200	7900	6350	5100	3900
120 (8.3)			8900	7500	6150	4950



ASK ABOUT OUR OTHER PHARMACEUTICAL CLEAN WATER SOLUTIONS