

# PURE STEAM GENERATION

## PHARMACEUTICAL & BIOPHARMA

### PSG-1500



### 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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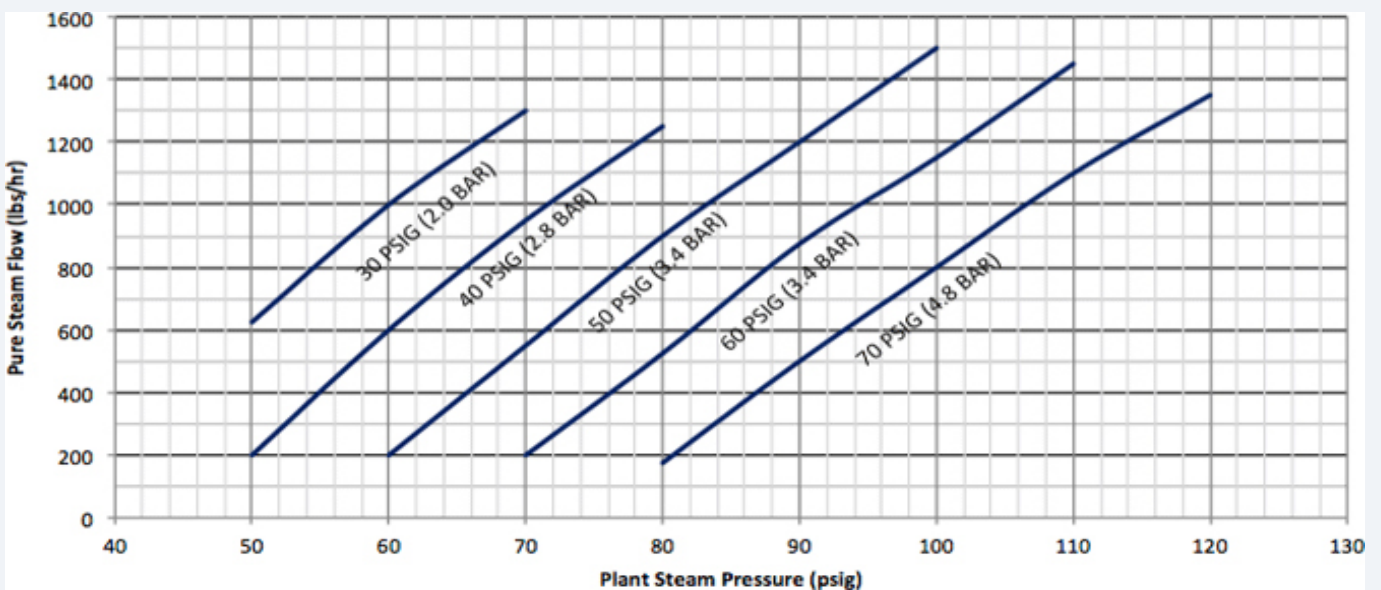
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# PURE STEAM GENERATION



PSG-1500		
<b>Nominal Capacity</b>	1500 lbs/hr	680 kg/hr
<b>Design Type</b>	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
<b>Feedwater Quality</b>	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)		625	200			
60 (4.0)		1000	600	200		
70 (4.8)		1300	950	550	200	
80 (5.5)			1250	900	525	175
90 (6.2)				1200	875	500
100 (6.9)				1500	1150	800
110 (7.6)					1450	1100
120 (8.3)						1350



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PHARMACEUTICAL CLEAN WATER SOLUTIONS**