

# PURE STEAM GENERATION

## PHARMACEUTICAL & BIOPHARMA

### PSG-1000



### 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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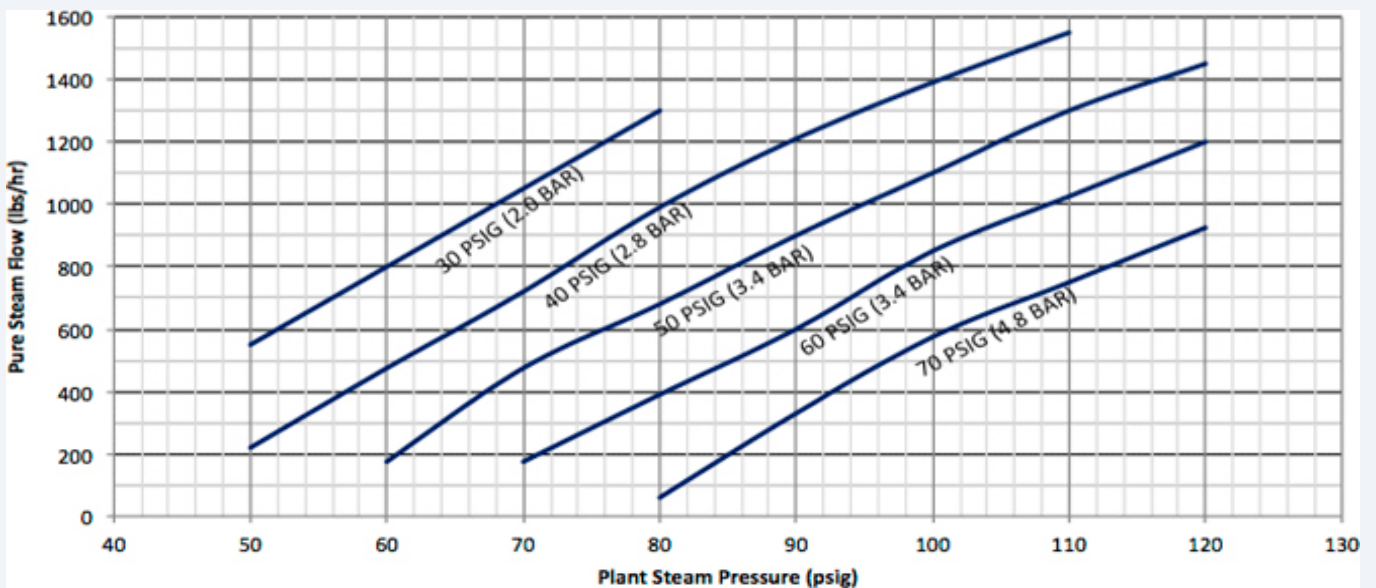
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GLOBAL • WATER • SOLUTIONS

PSG-1000		
<b>Nominal Capacity</b>	1450 lbs/hr	657 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)		550	220			
60 (4.0)		800	475	175		
70 (4.8)		1050	720	475	175	
80 (5.5)		1300	990	680	390	60
90 (6.2)			1210	900	600	330
100 (6.9)			1390	1100	850	575
110 (7.6)			1550	1300	1025	750
120 (8.3)				1450	1200	925



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