

# PURE STEAM GENERATION

## PHARMACEUTICAL & BIOPHARMA

### PSG-3000



### 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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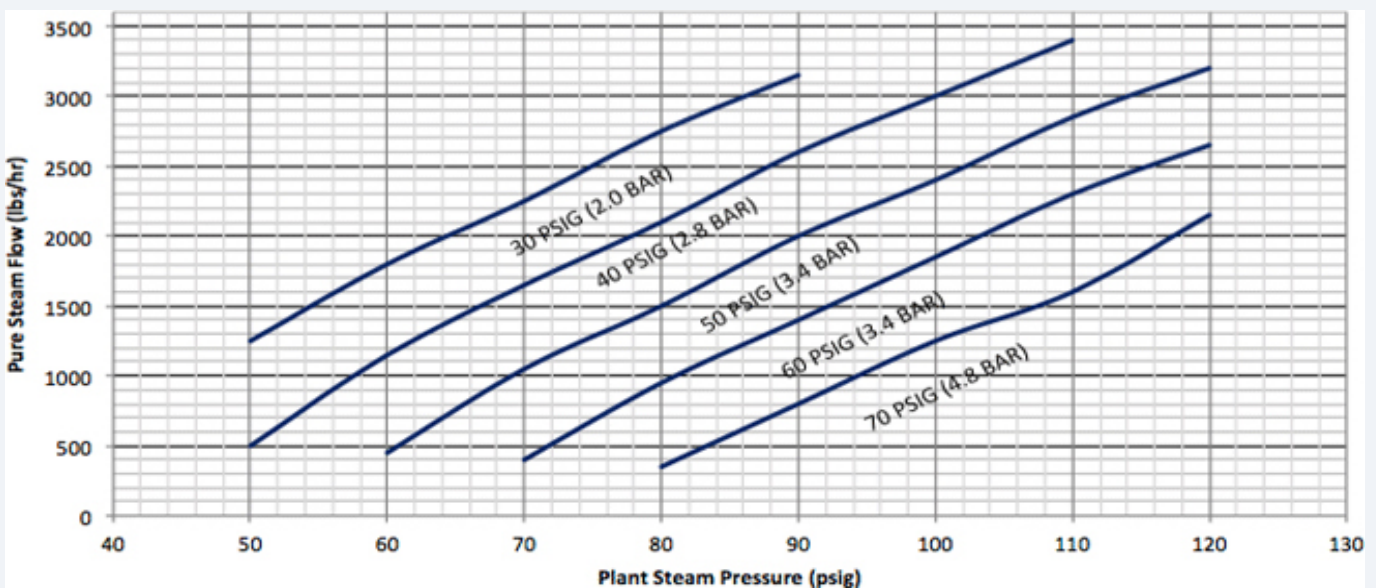
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PSG-3000		
<b>Nominal Capacity</b>	3200 lbs/hr	1415 kg/hr
<b>Design Type</b>	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
<b>Feedwater Quality</b>	No Hardness, Chlorine, or Amines	
	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)		1250	500			
60 (4.0)		1800	1150	450		
70 (4.8)		2250	1650	1050	400	
80 (5.5)		2750	2100	1500	950	350
90 (6.2)		3150	2600	2000	1400	800
100 (6.9)			3000	2400	1850	1250
110 (7.6)			3400	2850	2300	1600
120 (8.3)				3200	2650	2150



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PHARMACEUTICAL CLEAN WATER SOLUTIONS**