

# PURE STEAM GENERATION

## PHARMACEUTICAL & BIOPHARMA

### PSG-2500



### 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



CONTACT US:

(800) 964-7035

[sales@aquachem.com](mailto:sales@aquachem.com)

[www.aquachem.com](http://www.aquachem.com)



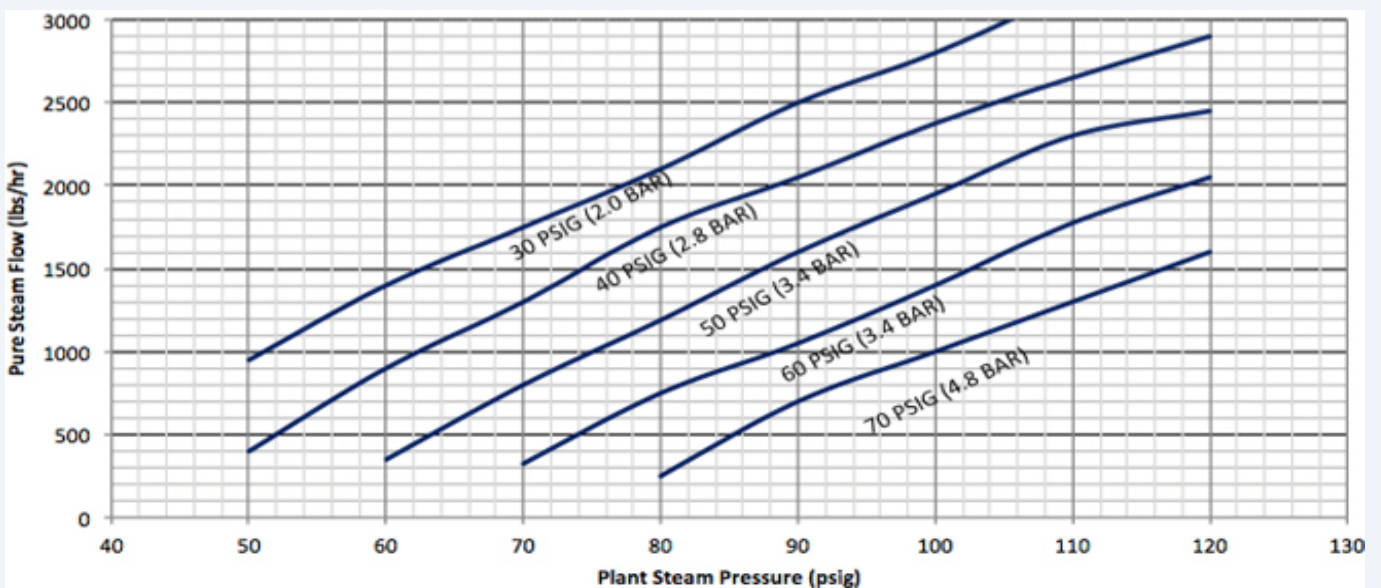
3001 E. Governor John Sevier Hwy  
Knoxville, TN 37914

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PSG-2500		
<b>Nominal Capacity</b>	2900 lbs/hr	1315 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)		950	400			
60 (4.0)		1400	900	350		
70 (4.8)		1750	1300	800	325	
80 (5.5)		2100	1750	1190	750	250
90 (6.2)		2500	2050	1600	1050	700
100 (6.9)		2800	2375	1950	1400	1000
110 (7.6)		3175	2650	2300	1775	1300
120 (8.3)			2900	2450	2050	1600



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