

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-500



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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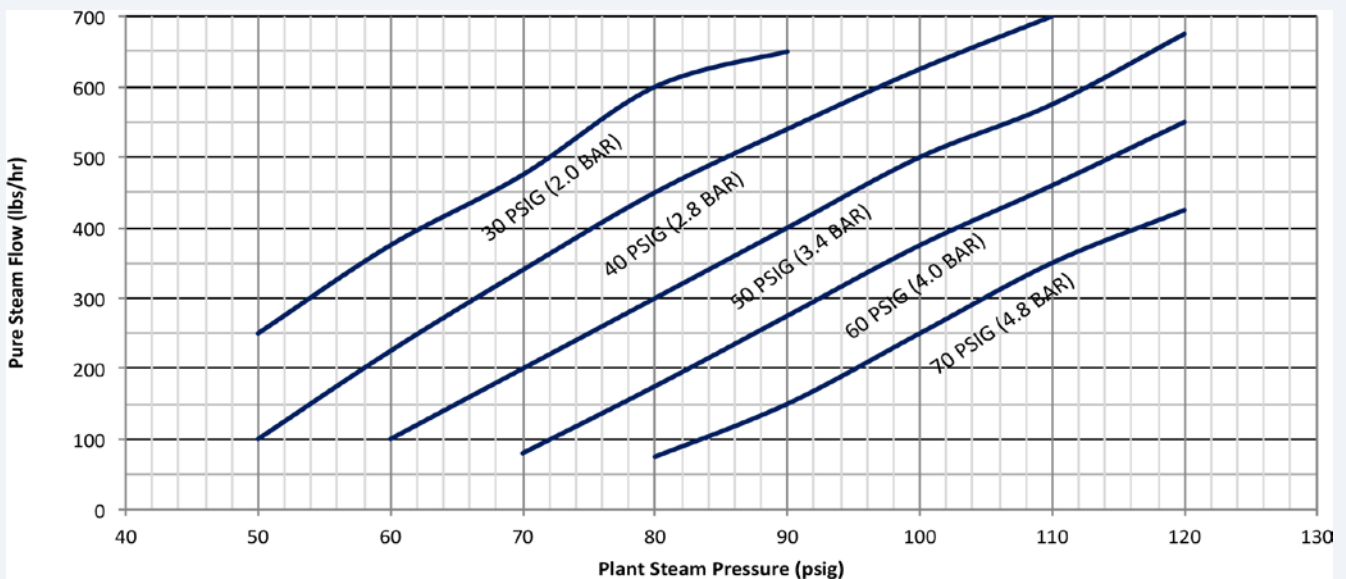
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PSG-500		
Nominal Capacity	675 lbs/hr	306 kg/hr
Design Type	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
Feedwater Quality	No Hardness, Chlorine, or Amines	
	Silica: <1ppm	Conductivity: <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)	250	100			
60 (4.0)	375	225	100		
70 (4.8)	475	340	200	80	
80 (5.5)	600	450	300	175	75
90 (6.2)	650	450	400	275	150
100 (6.9)		625	500	375	250
110 (7.6)		700	575	460	350
120 (8.3)			675	550	425



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