

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-10000



AQUA CHEM

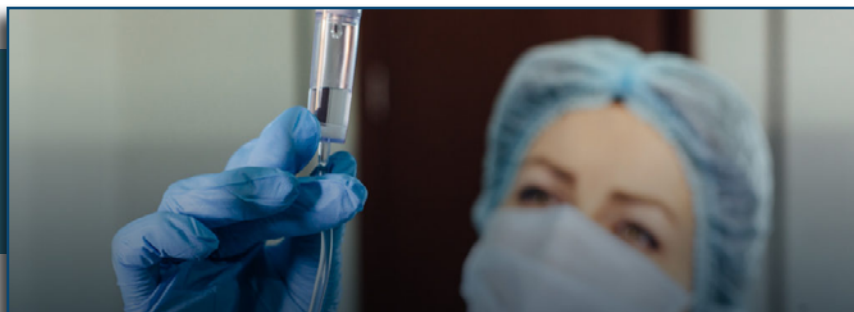
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DESIGN FEATURES

- 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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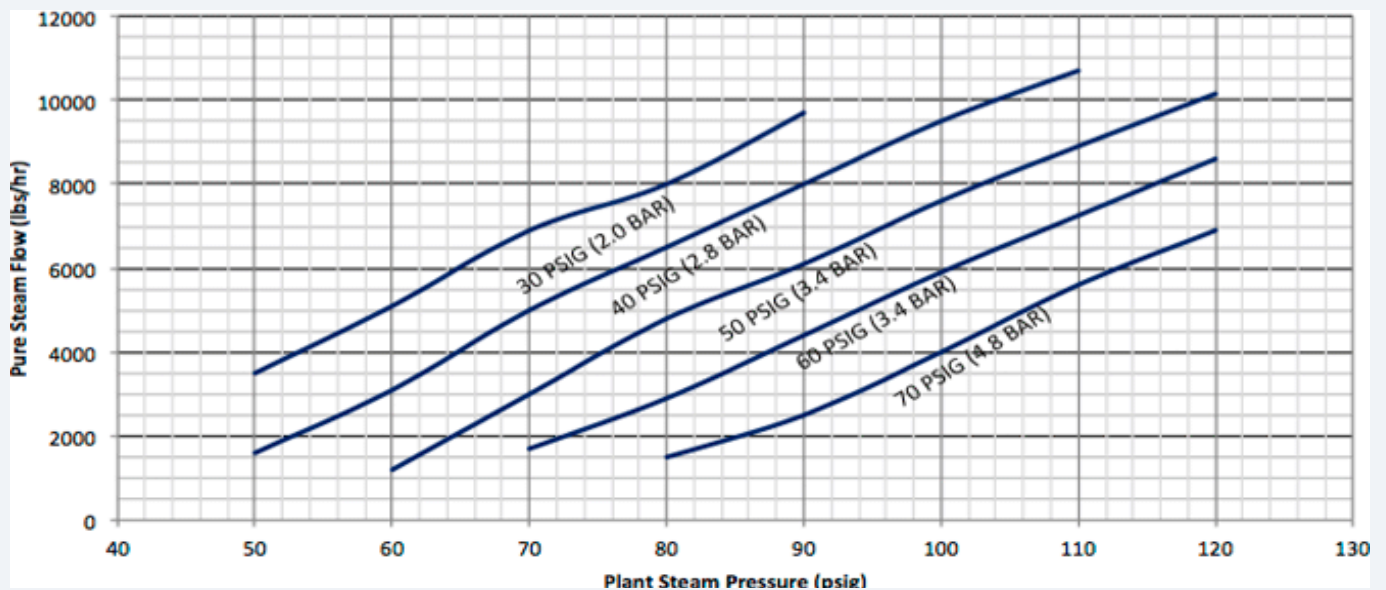
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Nominal Capacity	10150 lbs/hr	4604 kg/hr
Design Type	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
Feedwater Quality	No Hardness, Chlorine, or Amines	
	Silica: <1ppm	Conductivity: <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)		3500	1600			
60 (4.0)		5100	3100	1200		
70 (4.8)		6900	5000	3000	1700	
80 (5.5)		8000	6500	4800	2900	1500
90 (6.2)		9700	8000	6100	4400	2500
100 (6.9)			9500	7600	5900	4000
110 (7.6)			10700	8900	7250	5600
120 (8.3)				10150	8600	6900



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