

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-4000



AQUA CHEM

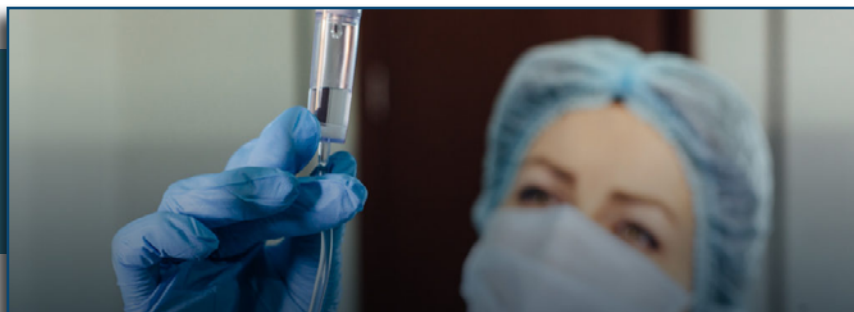
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DESIGN FEATURES

- 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



CONTACT US:

(800) 964-7035

sales@aquachem.com

www.aquachem.com



3001 E. Governor John Sevier Hwy
Knoxville, TN 37914

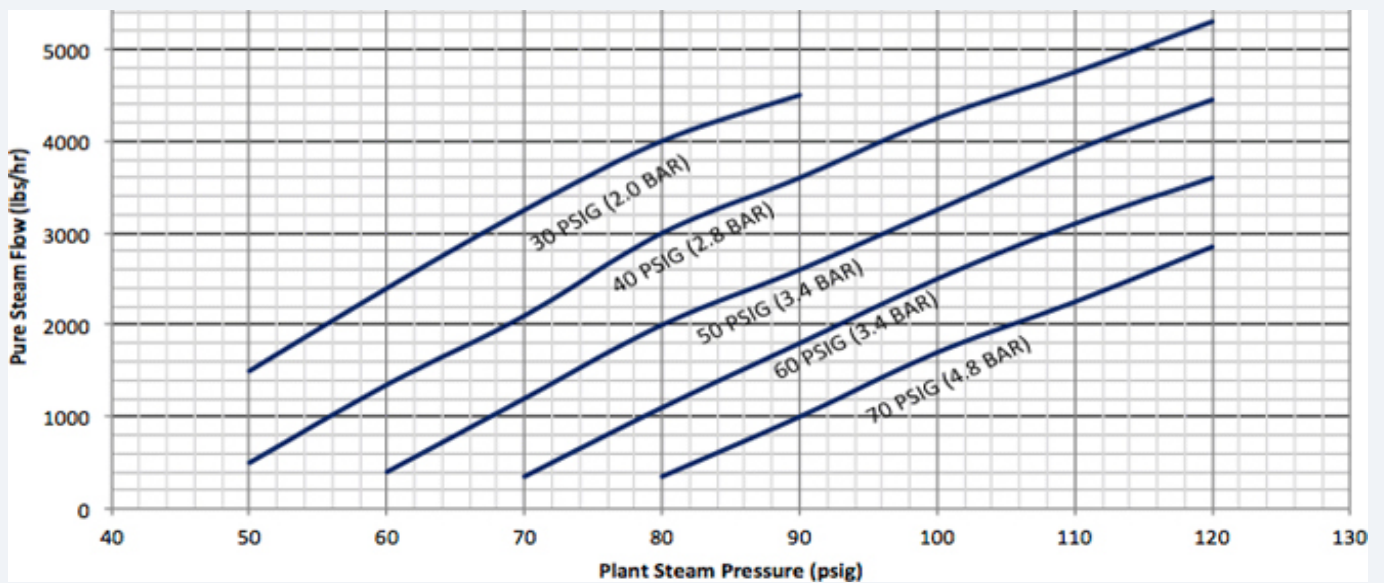
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PSG-4000		
Nominal Capacity	4450 lbs/hr	2018 kg/hr
Design Type	Straight Tube (Double-Tube Sheet) Vertical Thermosiphon Reboiler	
	TEMA BEM Shell with Single-Segmental Baffles	
Feedwater Quality	No Hardness, Chlorine, or Amines	
	Silica: <1ppm	Conductivity: <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)		1500	500			
60 (4.0)		2400	1350	400		
70 (4.8)		3250	2100	1200	350	
80 (5.5)		4000	3000	2000	1100	350
90 (6.2)		4500	3600	2600	1800	1000
100 (6.9)			4250	3250	2500	1700
110 (7.6)			4750	3900	3100	2250
120 (8.3)			5300	4450	3600	2850



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PHARMACEUTICAL CLEAN WATER SOLUTIONS**