

PURE STEAM GENERATION

PHARMACEUTICAL & BIOPHARMA

PSG-6100



AQUA CHEM

GLOBAL • WATER • SOLUTIONS

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:

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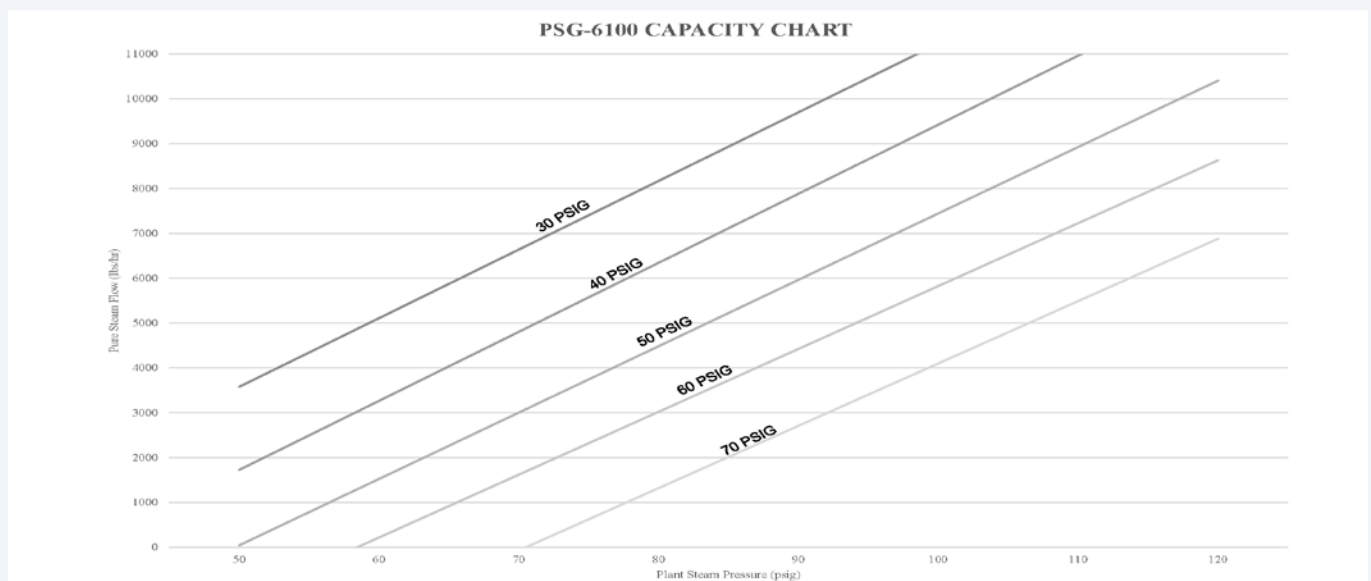
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Knoxville, TN 37914

PURE STEAM GENERATION



| PSG-6100 | | |
|--------------------------|--|-------------------------|
| 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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ASK ABOUT OUR OTHER PHARMACEUTICAL CLEAN WATER SOLUTIONS