

## OVERVIEW:

- Produces purified water (USP Purified), highly purified water and Water For Injection (WFI) in accordance with all recognized pharmacopoeias
- Meets/exceeds the exacting standards of the pharmaceutical industry and cGMP requirements
- Available individually or as part of a total water treatment solution
- Superior energy efficiency
- All components manufactured by MECO in the U.S. (spare parts available)
- Efficient component layout allows for ease of maintenance and calibration
- Customizable to customer specifications for valves, instruments and other mechanical components
- Optional complete validation package with IQ/OQ protocol execution
- Supported by MECO 24-hour customer service
- Backed by warranty



## PRODUCT HIGHLIGHTS:

### Standard Features

- Unit is completely piped, wired, and assembled on a single skid at the factory
  - Fully functional FAT
  - Reduces installation costs and startup time
- Vertical natural circulation evaporator
  - Accepts broadest range of feed water quality in the industry
  - Reduces scale effects
  - No circulation pumps or spray nozzles required
  - Straight annealed tubes in evaporator
    - No residual stresses or surface finish problems commonly found with U-tubes
    - Individual tubes can be replaced as opposed to replacing an entire tube bundle
- Deaeration of feed water
  - Non-condensibles removed prior to distillation
  - Corrosion reduction
- Hot Stand-by
- Improved response to distillate demand
- Elimination of bio-growth
- Sanitary construction and connections
- PLC based controls

### Equipment Details

- State of the art, GII Centurbo™ Compressor
  - Inconel or 2205 Duplex Stainless Steel compressor impeller
  - Directly mounted with no vapor duct work
- Double tubesheet heat exchangers
- Sloped piping and low point drains
- Minimum deadlegs
- 316/316L SS process contact components
- 25 Ra  $\mu$ in (0.64 Ra  $\mu$ m) standard process contact surfaces
- Premium valves and instruments
- Pneumatic panel houses all pneumatic components
- Stainless steel air lines
- Stainless steel hardware
- Mirror finish stainless steel cladding

MODEL	CAPACITY IN GPH [LPH]
PES400MSSH	400 [1,514]
PES750MSSH	750 [2,839]
PES1200MSSH	1,200 [4,542]
PES1600MSSH	1,600 [6,057]
PES2400MSSH	2,400 [9,085]
PES3000MSSH	3,000 [11,356]
PES3600MSSH	3,600 [13,626]
PES4500MSSH	4,500 [17,034]
PES6000MSSH	6,000 [22,712]
PES7200MSSH	7,200 [27,255]

*Note: All VC Still models are available in both hot and cold distillate arrangements (PESXXXMSSHC).*

