

VAPOR COMPRESSION

OVFRVIFW:

- · Leading manufacturer of vapor compression desalination plants
- · Produces potable drinking water and high-quality distilled water
- Completely packaged units for minimum field installation
- Superior energy efficiency
- Offers the largest vapor compression still available capacity of 20,000 GPH (76 m3/hr)
- · All components manufactured by MECO
- Spare parts also available
- Supported by MECO 24-hour customer service
- · Backed by warranty



Standard Features

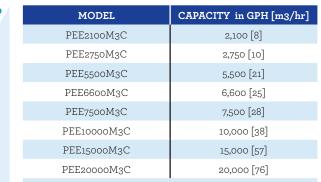
- Vertical natural circulation evaporator
 - Feedwater quality tolerance
 - · Scale effects reduced
 - · No pumps or spray nozzles
- Straight annealed tubes in evaporator
 - · Individual tubes can be replaced as opposed to replacing the entire tube bundle
 - · No residual stresses or surface finish problems commonly found with U-tubes
- Deaeration of feedwater
 - · Non-condensibles removed prior to distillation
 - Corrosion reduction
- · Corrosion resistant materials
 - 90/10 copper nickel
 - Titanium
 - Inconel
 - Monel



Equipment Details

Design Details

- · Galvanized rigid steel conduit
- · Stainless steel airlines
- Integrated control and instrument panel
- TEFC motors
- · MECO vapor compressor
- Manufactured by MECO
- Immediate spare parts availability
- Exchange program
- Inconel impeller and Monel-process contact components
- New Lube Lock Sealing System
- Directly mounted with no vapor ductwork
- Space friendly
- Smaller footprint
- Easy access for maintenance



Notes: Capacities are based on seawater with a TDS of 35,000 ppm at 77°F (25°C). MECO M3C units typically operate based on a concentration ratio of 1.77.

