

# VAPOR COMPRESSION

## OVERVIEW:

- 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 m<sup>3</sup>/hr)
- All components manufactured by MECO
- Spare parts also available
- Supported by MECO 24-hour customer service
- Backed by warranty

## PRODUCT HIGHLIGHTS:

### 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



MODEL	CAPACITY in GPH [m <sup>3</sup> /hr]
PEE2100M3C	2,100 [8]
PEE2750M3C	2,750 [10]
PEE5500M3C	5,500 [21]
PEE6600M3C	6,600 [25]
PEE7500M3C	7,500 [28]
PEE10000M3C	10,000 [38]
PEE15000M3C	15,000 [57]
PEE20000M3C	20,000 [76]

*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.*

