



Emerald



Silver A



Silver B



Silver C



Silver D



**armada**  
marinehydraulics  
Matrix watermakers

# Matrix Emerald Series Systems

Capacities: 400 - 600 - 800 - 1200 Gallons Per Day

Configurations: Cabinet or Modular



Emerald models produce between 400 and 1200 gallons per day and are simple, reliable, and economical. The Emerald Series delivers Matrix high quality in a compact and quiet watermaker.

## Features

- » Simple Installation.
- » 5 micron cartridge filtration.
- » Timed freshwater flush assembly.
- » 316 stainless steel triplex high pressure pump with TEFC motor.
- » Heavy duty industrial rated CPVC supply pump with TEFC motor.
- » Corrosion resistant fiberglass pressure vessels.
- » 2.5 x 40 inch spiral wound, thin film composite membranes.
- » Powder coated aluminum frame.
- » NEMA 4X FRP control enclosure. Waterproof wiring and conduit.
- » High-pressure relief valve for system protection.
- » Glycerin filled monel pressure gauges.
- » Product flow indicator.
- » 316 stainless steel high-pressure fittings.
- » Digital conductivity meter with LCD display.
- » Solenoid actuated divert valve for product quality assurance.
- » Operating manual. Paper and CD.
- » Standard installation kit.
- » Factory Testing and Sterilization.

## Options

- » 25 Micron Bag Filter Assembly.
- » UV Sterilizer.
- » Remineralizer Assembly.
- » Basket Strainer.
- » Silver Ion Sterilizer.
- » Distribution Side Carbon Filter.
- » Softener.



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# Matrix Silver A Systems

Capacities: 600 - 1000 - 1500 - 2000 Gallons Per Day  
Configurations: Cabinet or Modular



Silver A models produce between 600 and 2000 gallons per day and are extra heavy-duty and suitable for any application; be it mega-yacht, cruise ship, oil rig, patrol boat, or environmentally hostile land-based applications. Built tough for reliability and ease of operation.

## Features

- » Two-stage 5 and 20 micron cartridge filtration.
- » Nickel aluminum bronze high pressure pump with TEFC motor.
- » Nickel aluminum bronze supply pump with TEFC motor.
- » Powder coated aluminum frame.
- » Corrosion resistant fiberglass pressure vessels.
- » 2.5 x 40 inch spiral wound, thin film composite membranes.
- » NEMA 4X FRP control panel. Waterproof wiring and conduit.
- » High and Low pressure switches for system protection.
- » Glycerin filled SS316 and monel pressure gauges.
- » Product and concentrate flow indicators.
- » Elapsed hour meter.
- » Vibration absorption mounts.
- » 316 stainless steel high-pressure fittings.
- » Digital conductivity meter with LCD display.
- » Solenoid actuated divert valve for product quality assurance.
- » Supply and high pressure pump motor starters with overload protection.
- » Operating manuals - paper and CD.
- » Factory Testing and Sterilization.

## Options

- » Timed Freshwater Flush.
- » Chemical Clean Valve Assembly.
- » 25 Micron Bag Filter Assembly.
- » UV Sterilizer.
- » Silver Ion Sterilizer.
- » Remineralizer.
- » Chemical Cleaning System with Tank and Pump.
- » Danfoss Duplex SS Axial Piston High Pressure Pump.
- » Basket Strainer.
- » Softener.
- » Distribution Side Carbon Filter.
- » Remote Alarm Volt-Free Contact.
- » Multi Media Filter.

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# Matrix Silver B Systems

Capacities: 2600 - 3600 - 4400 Gallons Per Day

Configurations: Cabinet or Modular



Silver B models produce between 2600 and 4400 gallons per day and are extra heavy-duty and suitable for any application; be it mega-yacht, cruise ship, oil rig, work boat, or environmentally hostile land-based applications. Built tough for reliability and ease of operation.

## Features

- » 5 micron cartridge filtration.
- » Nickel aluminum bronze high pressure pump with TEFC motor.
- » Nickel aluminum bronze supply pump with TEFC motor.
- » Corrosion resistant fiberglass pressure vessels.
- » 4 x 40 inch spiral wound, thin film composite membranes.
- » Powder coated aluminum frame.
- » NEMA 4X FRP control panel. Waterproof wiring and conduit.
- » High and Low pressure switches for system protection.
- » High pressure pulsation dampener.
- » Glycerin filled SS316 and monel pressure gauges.
- » Product and concentrate flow indicators.
- » Elapsed hour meter.
- » Vibration absorption mounts.
- » 316 stainless steel high-pressure fittings.
- » Digital conductivity meter with LCD display.
- » Solenoid actuated divert valve for product quality assurance.
- » Supply and high pressure pump motor starters with overload protection.
- » Chemical cleaning valve assembly.
- » Operating manuals - paper and CD.
- » Factory Testing and Sterilization.

## Options

- » Timed Freshwater Flush.
- » UV Sterilizer
- » 25 Micron Bag Filter Assembly.
- » Silver Ion Sterilizer
- » Remineralizer
- » Chemical Cleaning System with Tank and Pump
- » Danfoss Duplex SS Axial Piston High Pressure Pump
- » Basket Strainer
- » Softener
- » Distribution Side Carbon Filter
- » Remote Alarm Volt-Free Contact
- » Multi-Media Filtration

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# Matrix Silver C Systems

Capacities: 5300 - 14000 Gallons Per Day

Configurations: Cabinet or Modular



Silver C models produce between 5300 and 14000 gallons per day and are extra heavy-duty and suitable for any application; be it mega-yacht, cruise ship, oil rig, work boat, or environmentally hostile land-based applications. Built tough for reliability and ease of operation.

## Features

- » 5 micron cartridge filtration.
- » Nickel aluminum bronze high pressure pump with TEFC motor.
- » Nickel aluminum bronze supply pump with TEFC motor.
- » Corrosive resistant fiberglass pressure vessels.
- » Spiral wound, thin film composite membranes.
- » Powder coated aluminum frame.
- » NEMA 4X FRP control panel. Waterproof wiring and conduit.
- » High and Low pressure switches for system protection.
- » High and low pressure pulsation dampeners.
- » Glycerin filled SS316 and monel pressure gauges.
- » Product and concentrate flow indicators.
- » Timed freshwater flush assembly.
- » Chemical cleaning system with tank and pump.
- » Elapsed hour meter.
- » Vibration absorption mounts.
- » 316 stainless steel high-pressure piping.
- » Digital conductivity meter with LCD display.
- » Solenoid actuated divert valve for product quality assurance.
- » Supply and high pressure pump motor starters with overload protection.
- » Chemical cleaning valve assembly.
- » Operating manuals - paper and CD.
- » Factory Testing and Sterilization.

## Options

- » 25 Micron Bag Filter Assembly.
- » UV Sterilizer.
- » Remineralizer.
- » Silver Ion Sterilizer.
- » Danfoss Duplex SS Axial Piston High Pressure Pump.
- » Basket Strainer.
- » Softener.
- » Distribution Side Carbon Filter.
- » Remote Alarm Volt-Free Contact.
- » Multi-Media Filtration.

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# Matrix Silver D Systems

Capacities: Any Capacity - 18,000 GPD - 150,000 GPD  
Configurations: Cabinet, Modular, or Build-To-Fit.



Silver D models produce 18,000 to 150,000 gallons per day. They are extra heavy-duty and suitable for any application; be it mega-yacht, cruise ship, oil rig, work boat, or environmentally hostile land-based applications. Built tough for reliability and ease of operation.

## Features

- » Build to fit existing installation area.
- » 5 Micron cartridge filtration.
- » 25 Micron bag filtration.
- » Danfoss Duplex SS Axial Piston High Pressure Pump.
- » Nickel aluminum bronze supply pump with TEFC motor.
- » Epoxy powder coated skids and frames.
- » Corrosion resistant fiberglass pressure vessels.
- » TFC spiral wound seawater membranes.
- » NEMA 4X FRP control enclosure. Waterproof wiring and conduit.
- » High and Low pressure switches for system protection.
- » High and low pressure pulsation dampeners.
- » SS316 and monel pressure gauges. Glycerin Filled.
- » Product and concentrate flow indicators.
- » Freshwater flush system with tank and pump utilizing R.O. water.
- » Membrane cleaning system.
- » Product water post treatment.
- » Elapsed time meter.
- » Safety equipment, monitors, and alarm indicators.
- » Vibration absorption mounts.
- » 316 stainless steel piping.
- » Digital conductivity meter with LCD display.
- » Solenoid actuated divert valve for product quality assurance.
- » Supply and high pressure pump motor starters with overload protection.
- » Complete Factory Testing and Sterilization.
- » Detailed Operation and Maintenance Manuals on Paper and CD.
- » Electronic 3D Installation Drawings.
- » Custom Configurations to fit Unique Space Requirements.

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