

Reverse Osmosis

MECO Marine Reverse Osmosis MASTERedge™ Package

Conservative Flux Rate

MECO designs all of its MASTERedge™ RO units with flux rates from 12-16 GFD. Having a lower flux rate means that scale formation will be reduced, membrane life is extended, and maintenance costs will be lowered. Higher flux rates may give you more flow at a cheaper capital cost, but long-term maintenance costs will exceed those initial capital cost savings in the long run.

Sanitary Permeate Line

All MECO MASTERedge™ RO units come with permeate lines that meet or exceed current sanitary requirements. This includes two forged, pneumatically actuated diaphragm valves that can be mounted on your permeate tank. Sanitary hoses with tri-clamp connections are used on the permeate outlet connection of the RO vessels to connect to the permeate manifold. This will make the chore of replacing membranes easier, faster and will become a feature that maintenance staffs will come to appreciate.

High Cross Flow

Cross flows are set to meet or exceed manufacturer's minimum requirements for scale prevention. MECO RO units come standard with recycle lines and flow meters, within skid limits, to ensure that membrane cross flows are set at the proper rate and that RO recovery can remain at 75% or higher.

Automatic Operation

All RO units come standard with a comprehensive control, Operator Interface Terminal (OIT) and instrumentation package. This control package is completely preprogrammed with a full set of alarms and safety features to guard your RO against possible damage. These measures ensure worry-free operation of your RO even when no one is present.

Standout Features Include:

- System is automatically flushed with fresh water at shutdown.
- No pre-treatment chemicals are required.
- High quality materials of construction (904L SS high pressure piping).
- Utilizes commercially available membranes.
- Integral cleaning system with pump, tank and instrumentation.
- A low RPM positive displacement high-pressure pump is utilized.
- Automatic operation.
- Conservatively sized filtration (media and cartridge filter).
- Packaged for easy installation.
- Membranes are housed in side port entry pressure vessels.

MASTERSupport™

online service center

Anytime. Anywhere.

- 24/7/365 access to effectively manage your water system.
- Real time access to:
 - ▶ Purchase spare parts online
 - ▶ Track status of outstanding orders
 - ▶ Review shipping information
 - ▶ Review invoice/payment history
 - ▶ Review online maintenance records
 - ▶ Request technical information
 - ▶ Online electronic manuals
 - ▶ Remote system monitoring capabilities

