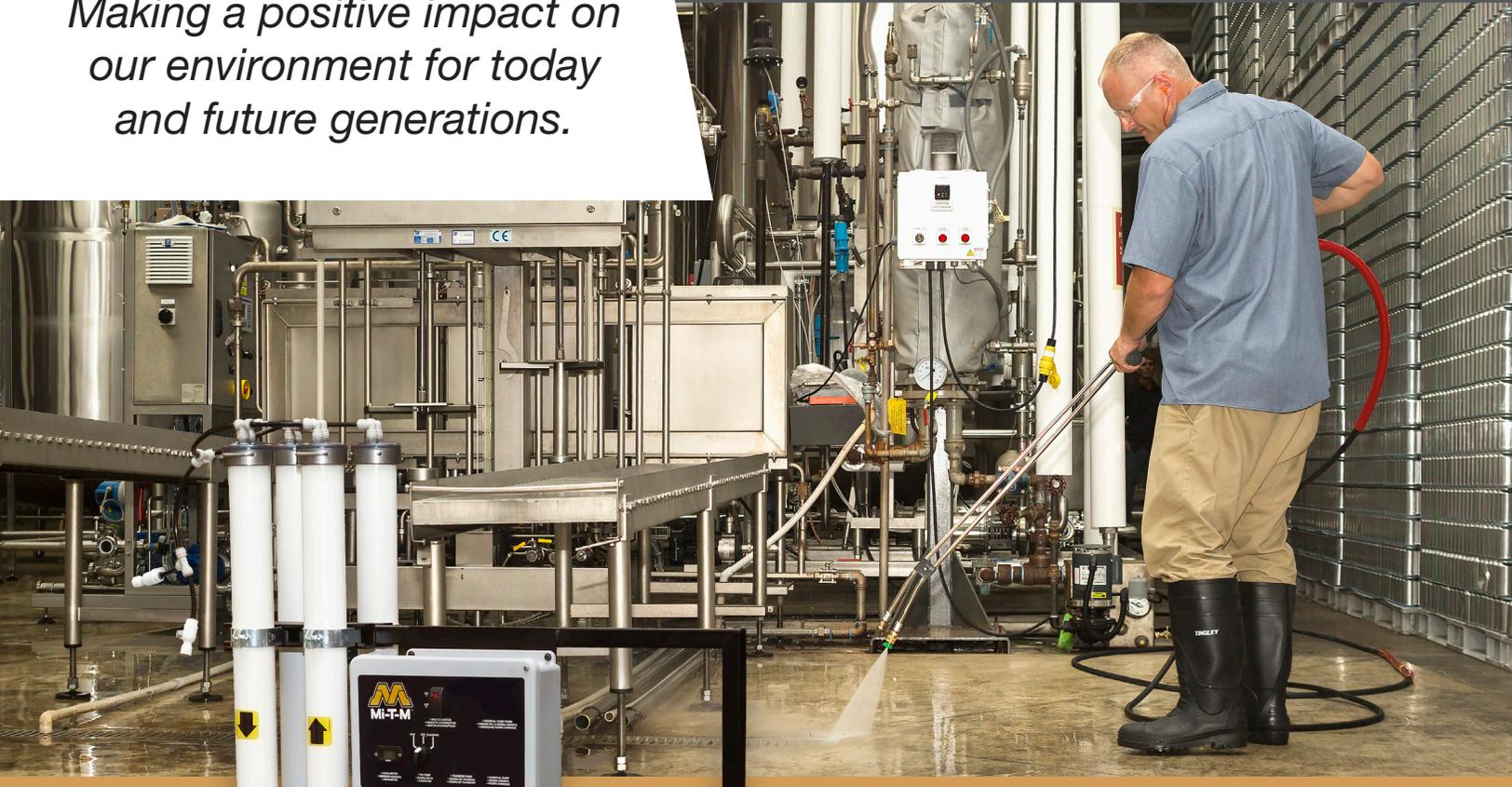


*Making a positive impact on  
our environment for today  
and future generations.*

*FRO Series*



# FRO Series

## Freshwater Reverse Osmosis Systems

THE FRESHWATER REVERSE OSMOSIS SYSTEM EFFICIENTLY REMOVES CONTAMINANTS WITH A MULTI PRE-FILTER PROCESS AND SPIRAL WOUND MEMBRANES. IT IS CUSTOMIZABLE AND CAN TREAT UP TO 2000 GALLONS OF WATER PER DAY.

CUSTOM BUILT UNITS ARE AVAILABLE. CONSULT DEALER FOR MORE INFORMATION.

### FEATURES

- Powder coated steel frame
- PLC controls for automated operation
- Reverse osmosis pump
- Low feed pressure shutdown
- Multiple spiral wound membranes
- Sediment pre-filter
- ETL listed NEMA-4 rated corrosion-proof control panel



MODEL NUMBER	GPM @ PSI	PERMEATE FLOW	REVERSE OSMOSIS PUMP	POWER REQUIREMENTS	AMP DRAW	FRAME DIMENSIONS (LxWxH)	SHIP WT.
FRO-1000-0M10	2.0 @ 200	0.7-0.8 GPM	1/2 HP	120V, 1Ø, 15.0A	8.0A	38x24x60in.	240 lb.
FRO-2000-0M10	4.0 @ 200	1.4-1.5 GPM	3/4 HP	120V, 1Ø, 15.0A	12.0A	38x24x60in.	270 lb.

### ACCESSORIES:

PART NUMBER	DESCRIPTION	FITS MODELS
19-0216	20-inch, replacement 20-micron pleated filter – Removes sediment	All models
19-0302	20-inch, replacement 10-micron filter – Removes sediment	All models
19-0303	20-inch, replacement 5-micron carbon filter – Removes sediment and chlorine	All models
19-0304	20-inch, replacement anti-scale filter – Protects membranes from scaling from hardwater	All models
19-0305	10-inch, replacement 5-micron cartridge filter – Removes sediment	All models
19-0306	40-inch, replacement membranes	All models
19-0311	10-inch, 1 micron pleated filter – Removes sediment	All models
19-0312	20-inch, 1 micron pleated filter – Removes sediment	All models
19-0313	20-inch, 5 micron pleated filter – Removes sediment	All models
19-0633	10-inch filter housing – Housing for 19-0305 filter	All models
19-0634	20-inch filter housing – Housing for any 20-inch filter	All models
58-0023	10-inch storage cartridge – Protects membranes while being stored	All models
58-0024	10-inch, membrane cleaning cartridge, acid – Cleans bacteria and scale from membranes	All models
58-0025	10-inch, membrane cleaning cartridge, alkaline – Cleans bacteria and sediment from membranes	All models
58-0026	5-oz. o-ring lubricant for membranes	All models
RC-0009-0001	Single filter housing – Filter before pressure washer, includes single filter housing, mounting bracket and filter wrench, Fits 1 – 20-micron filter, mounting bracket and wrench	All models
RC-0009-0002	Double filter housing – Filters before pressure washer, includes double filter housing, mounting bracket and filter wrench, Fits 2 – 20-micron filters, mounting bracket and wrench	All models
RC-0009-0003	Triple filter housing – Filters before pressure washer, includes triple filter housing, mounting bracket and filter wrench, Fits 3 – 20-micron filters, mounting bracket and wrench	All models



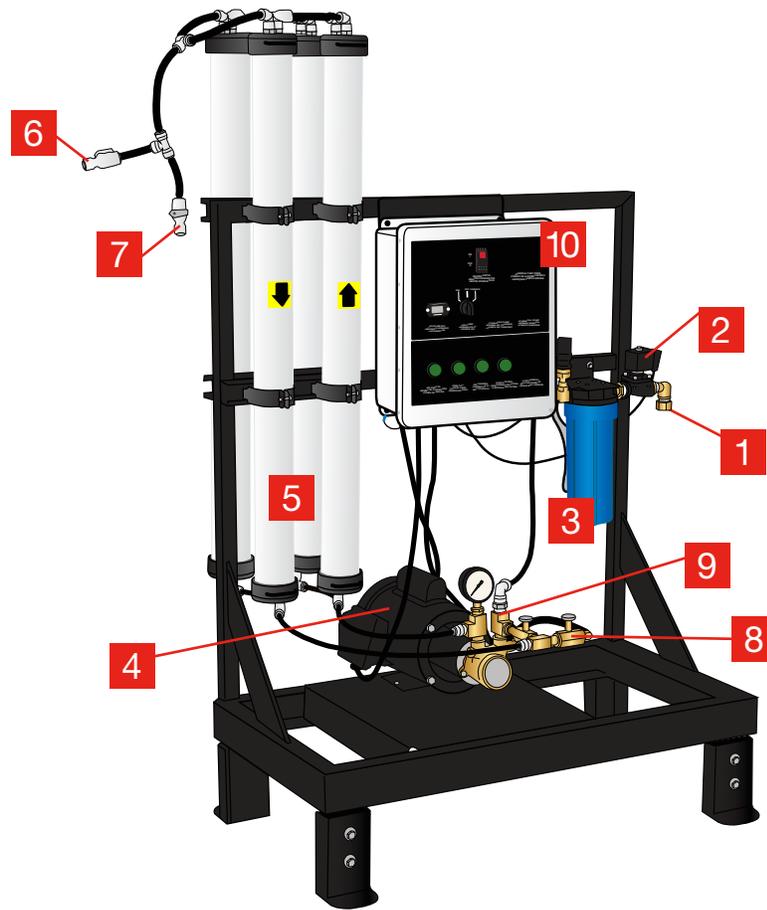
30-micron pleated filter, 19-0216



Anti-scale filter, 19-0304

# FRO Series

## Process & Flow Description



- 1. INLET CONNECTION** – Connect the reverse osmosis system using the ¾-inch female garden hose fitting to a clean pressurized water source of at least 20-PSI.
- 2. INLET SOLENOID** – The inlet solenoid opens to allow water into the system and shuts the flow of water off when the system shuts off.
- 3. PRE-FILTER HOUSING** – The small housing fits 1 or 5 micron pre-filter to screen out sediment and also is used for the cleaning and storage cartridges.
- 4. REVERSE OSMOSIS PUMP** – Increases water pressure to 200-PSI to efficiently push the water molecules through the reverse osmosis membranes.
- 5. FRESHWATER REVERSE OSMOSIS MEMBRANES** – 2 or 4 spiral wound membranes allow purified water (permeate) through while contaminants remain in the concentrate to be passed to a drain.
- 6. PERMEATE OUTLET** – The permeate comes out the top center of the membranes, it is connected to a tank to store the purified water for use.
- 7. SAMPLING PORT** – Use the sampling port to test permeate quality and flow.
- 8. CONCENTRATE VALVE** – Concentrate rejected from the membranes passes through the concentrate valve to the drain. The concentrate valve is also used to set pressure on the reverse osmosis pump.
- 9. RECYCLE VALVE** – The recycle valve can be used to direct some of the concentrate back to the inlet of the pump to save on water usage.
- 10. CONTROL PANEL** – ETL listed NEMA-4 rated corrosion-proof control panel for safe and reliable operation.

# FRO Series

## Freshwater Reverse Osmosis Systems

### RECOMMENDED APPLICATIONS:

- Rental Yards
- Golf Courses
- Heavy Equipment Dealers
- Trucking Facilities
- Military Bases
- Truck Rental Fleets
- Diesel Repair Facilities
- Forklift Washing Operations
- Aircraft Maintenance and Restoration
- Shipyards
- Municipalities/State DOTs
- Oil Fields
- Engine Rebuilders and Manufacturers

### THE IMPORTANCE OF A PROPER PIT SYSTEM:

Once equipment is washed, the untreated wash water flows into your pit system. A proper pit system for your application is the first step in proper wash water treatment and a critical element in any wash water recycle system.

Consult your dealer to determine the pit system configuration that works best for your application.



Control panel



Pre-filter housing with inlet solenoid and inlet connection



Freshwater reverse osmosis membranes with permeate outlet and sampling port

# Mi-T-M<sup>®</sup>

## EQUIPMENT

### SALES & SERVICE

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