

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

WRO Series



# WRO Series

## Reverse Osmosis Systems

### Benefits of using this equipment include:

Quality recycled water | Removes 98% of dissolved salts and contaminants | Easy operation and maintenance | 4-stage pre-filter process | Anti-bacterial treatment | Handles water between 50-100°F | Treats up to 1,000 gallons of water per day

### Features:

Powder coated steel frame | PLC controls for automated operation | CSA approved control panel | Dual spiral wound membranes | Pre-filter system that includes 30-micron, 10-micron, carbon and anti-scale filters, plus a 5-micron sediment filter | 7.4-gallon pressure tank | 1/2 HP transfer pump | 250-gallon holding tank



WRO-1000-0M10

*The Reverse Osmosis System effectively purifies wash water for reuse with a multi-stage filter process and by pushing water molecules through a semipermeable membrane. Ideal for wash bays, this efficient system removes dissolved salts and contaminants from wash water for reuse*

MODEL NUMBER	GPM @ PSI	PERMEATE FLOW	POWER REQUIREMENTS	FRAME DIMENSIONS (LxWxH)	HOLDING TANK DIMENSIONS (WxH)	SHIP WT.
WRO-1000-0M10	2.2 @ 200	0.7-0.8 GPM	208-230V, 10, 15A	60x30x48in.	36x62in.	650 lb.
WRO-1000-0M30	2.2 @ 200	0.7-0.8 GPM	208-230V, 30, 6A	60x30x48in.	36x62in.	650 lb.

230/208/460V 3-phase available on all models as options.

### Accessories

PART NUMBER	DESCRIPTION	FITS MODELS
19-0216	Replacement 30-micron pleated filter	All models
19-0302	Replacement 10-micron filter	All models
19-0303	Replacement 5-micron carbon filter	All models
19-0304	Replacement anti-scale filter	All models
19-0306	Replacement membrane	All models
32-0995	Conductivity sensor, 10-foot cord	All models
33-0653	Replacement handheld TDS meter	All models
58-0023	Reverse osmosis storage cartridge	All models
58-0024	Membrane cleaning cartridge, acid	All models
58-0025	Membrane cleaning cartridge, alkaline	All models
58-0026	5 oz. o-ring lubricant for membranes	All models
855-0042	Replacement reaction chambers	All models

### Option:

PART NUMBER	DESCRIPTION	FITS MODELS
WX-0143	460V, 3Ø - Upgrades 208-230V model to operate at 460V	All models



30-micron pleated filter, 19-0216



Anti-scale filter, 19-0304



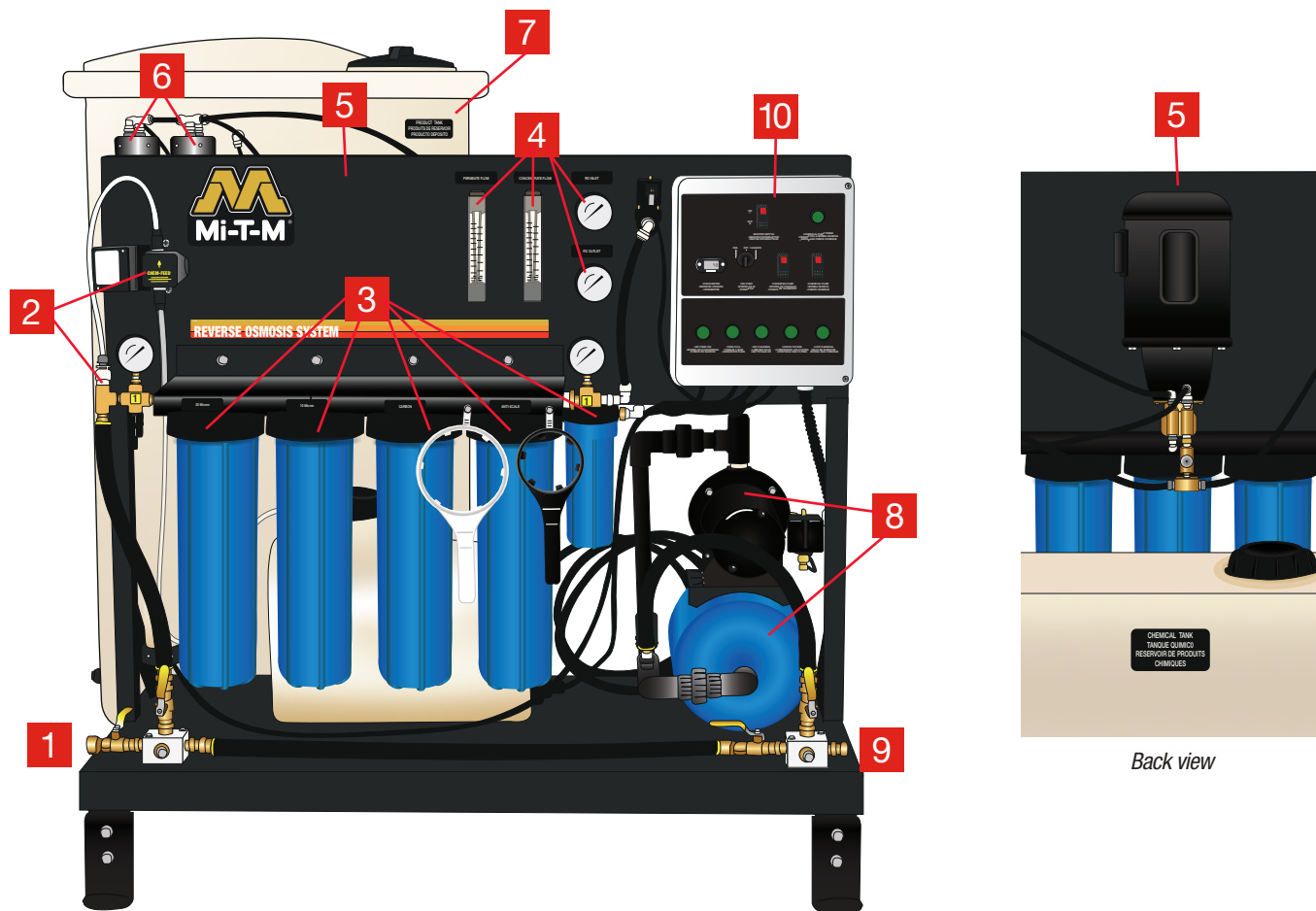
TDS meter, 33-0653



Reverse osmosis storage cartridge, 58-0023

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## Process & Flow Description



1. **Inlet Connection** - Connect a water supply from a recycling system or a fresh water supply using a 3/4-inch female hose fitting.
2. **Chemical Pre-Treatment System** - An adjustable diaphragm pump injects a solution of bleach into the system in order to kill bacteria that could damage the filters and membranes of the system.
3. **Pre-filter System** - A series of filters remove particles, chemicals and scale from the water that includes a 30-micron, 10-micron, carbon, anti-scale and 5-micron sediment filter.
4. **Monitoring System** - Permeate and concentrate flow meters, inlet and outlet reverse osmosis gauges monitor system performance and indicate when maintenance is required.
5. **Reverse Osmosis Pump** - Increases water pressure to 200-PSI to efficiently push the water molecules through the reverse osmosis membranes.
6. **Reverse Osmosis Membranes** - Dual spiral wound membranes remove dissolved solids from water. Contaminants pass through the concentration port into a drain or pit system.
7. **Purified Water in Holding Tank** - Purified water for rinsing and washing is stored in a 250-gallon tank with a level sensor that turns the system on as water is used.
8. **Transfer Pump System** - A 1/2 HP jet pump and 7.4-gallon tank pressurizes water at 30-PSI to 50-PSI for use through a pressure washer or hose.
9. **Outlet Connection** - Connect a pressure washer or garden hose using the 3/4-inch male hose fitting.
10. **Control Panel** - CSA listed NEMA-4 rated corrosion-proof control panel for safe and reliable operation.

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Control panel



250-gallon holding tank



Reverse osmosis membranes

## The Reverse Osmosis Filtration System is perfect for the following 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.



5500 Commerce Blvd. Suite A  
Rohnert Park, CA 94928  
(707) 793-4800  
[www.WaterForReuse.com](http://www.WaterForReuse.com)  
[info@usHydroTech.com](mailto:info@usHydroTech.com)