



Reverse Osmosis System

Water Treatment Systems

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



Reverse Osmosis System

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. 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 | 30-micron, 10-micron, carbon and anti-scale filters | 5.3-gallon pressure tank | 0.5 HP transfer pump | 250-gallon holding tank



WRO-1000-0M10

Ideal for wash bays, this efficient system removes dissolved salts and contaminants from wash water for reuse and spot-free rinsing.

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.

Option:

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

Accessories

PART NUMBER	DESCRIPTION
58-0023	Reverse osmosis storage cartridge
58-0024	Membrane cleaning cartridge, acid
58-0025	Membrane cleaning cartridge, alkaline
33-0653	Replacement handheld TDS meter
19-0216	30-micron pleated filter
19-0302	10-micron filter
19-0303	5-micron carbon filter
19-0304	Anti-scale filter
58-0026	5 oz. O-ring lubricant for membranes
19-0306	Replacement membrane



30-micron pleated filter, 19-0216



Anti-scale filter, 19-0304



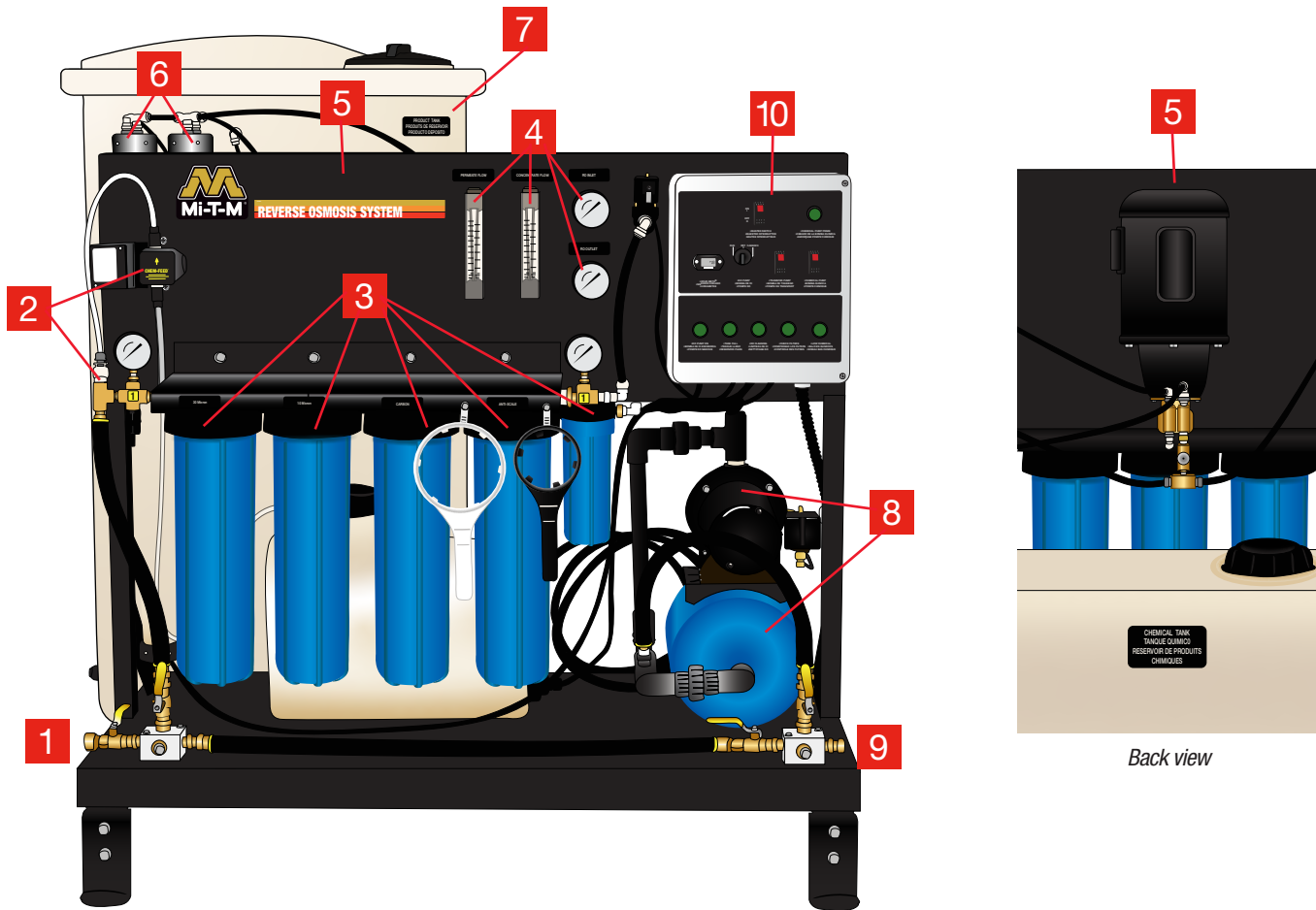
TDS meter, 33-0653



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 5.3-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

WATER TREATMENT SYSTEMS

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 Mi-T-M Corporation or your local distributor to determine the pit system configuration that works best for your application.



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