

APPLIED[®] SYSTEMS USA

Series WM – 250 to 4,000 GPD Wall Mount Systems

Reverse Osmosis Systems 250 to 4,000 Gallons/Day

Designed to produce low dissolved solids water from tap or well water, these wall-mounted systems use high efficiency reverse osmosis membranes. The product water is used in applications such as spot free rinse, water stores, whole house, labs, ice makers, humidification, misting and a wide variety of other applications.

Key Features

- 38 years of experience is reflected in our quality
- Compact, Heavy Duty, Powder Coated Frame
- Proven components used throughout the system
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



UL508A Labeled



I-ROC250H

Standard Equipment

- Thin Film Composite Membranes
- PVC membrane pressure vessels
- 5 micron cartridge filter & housing
- Automatic inlet feed solenoid valve
- System control valve
- Recycle control valve
- Low pressure pump protection
- Rotary vane high pressure RO pump
- Liquid filled system pressure gauge
- Powder coated carbon steel frame
- Boxed and palletized for shipment

Controller for Automatic Operation

Monitors and/or Controls:

- Inlet valve
- Low pressure switch
- Low pressure auto restart after 1 hour
- Feed water flush at system shut-down
- On/Off with tank level
- Pre-treatment backwash/lockout
- System On/Off according to Tank Level (Float purchase separately)

Controller Features:

- Panel mounted on/off switch

Indicator Lights:

- Service run/system flush
- Storage tank full/pretreatment lockout
- Low pressure shutdown/auto restart

Model No.	System Capacity		Membrane Elements		Line Sizes (NPT, Inches)			System Dimensions (in/cm)			Approx. Shipping Weight (Lb/Kg)
	GPD	m ² /day	Qty.	Size (Dia.×L)	Inlet	Perm.	Conc.	Length	Depth	Height	
WM-12521A-116	250	0.9	1	2.5 × 21	½	¾	¼	27/69	11/28	27/69	90/41
WM-22521A-116	500	1.9	2	2.5 × 21	½	¾	¼	27/69	11/28	27/69	96/44
WM-32521A-116	750	2.6	3	2.5 × 21	½	¾	¼	34/86	11/28	27/69	106/48
WM-42521A-116	1,000	3.8	4	2.5 × 21	½	¾	¼	34/86	11/28	27/69	118/54
WM-225A-116	1,200	4.5	2	2.5 × 40	½	½	¼	27/69	11/28	46/117	116/53
WM-325A-116	1,700	6.4	3	2.5 × 40	½	½	¼	34/86	11/28	46/117	136/62
WM-425A-116	2,200	8.3	4	2.5 × 40	½	½	¼	34/86	11/28	46/117	152/69
WM-24A-116	4,000	15.1	2	4.0 × 40	½	½	½	34/86	12/30	52/132	175/79

Notes and Voltage/ Ordering Information

- All dimensions and weights are approximate.
- **Capacity Basis:** 24 hrs/day
- **Systems rated at:** 77°F (25°C) using 1000 ppm sodium chloride solution operating at approx. 175 psi pressure.
- **Minimum feed pressure to RO System:** 40 PSI. System capacity changes significantly with water temperature
- Chlorine must be removed with a carbon filter prior to the RO system, if present in the feed water.
- Pretreatment for water hardness using a softener or antiscalant injection should be added to avoid scaling the membranes.
- Feed water turbidity: Less than 1 NTU; Feed water silt density index (SDI): 3 maximum. If exceeded, pretreatment with media filter recommended. All pretreatment equipment and SDI test kits are available from Applied Membranes.

Voltage: Above models indicate recommended voltage codes per model. Available voltages:

- **116** = 120V/1ph/60hz
- **215** = 220V/1ph/50hz.
- **216** = 220 or 230V/ 1ph/ 60hz
- Three phase not available.

APPLIED MEMBRANES INC.[®]

Industry Leader in RO Expertise and Membrane Applications Since 1983™



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Series WM – 250 to 4,000 GPD Wall Mount Systems

AMI's WM Series Wall Mount RO Systems are available with a wide variety of optional add-on accessories. All assemblies include hardware and mounting equipment for easy upgrade to your new or existing system installation.

Wall Mount Filter Cartridges

Includes 20" Big Blue Housing, Mounting Bracket and Isolation Valves for changing the cartridge. Cartridges sold separately.

Add-On Part #.: A711

Pretreatment Options Available:

- **Sediment Filters in a variety of micron ratings:**
 1µ: H-F20BB01CF, 5µ H-F20BB05CF
 10 µ: H-F20BB10CF, 30µ: 155430-43
 75/25 µ Dual Rated: 155356-43
 100µ: 355226-43
- **Scale Inhibitor Cartridges:** H-F4220-NS
- **Block Carbon Filters:** KX Brand: 32-425-125-20

Post-Treatment Options Available:

- **Calcite Cartridge to neutralize permeate pH:** H-F4220CALCITE
- **Mixed-Bed DI for ultrapure applications:** H-F4220DI



Softener & Media Filters

AMI Media Filters feature fully automatic backwash or regeneration.

- Single or Twin Water Softeners
- Multi-Media Filter for 10 micron filtration
- Carbon Filter to remove chlorine
- Calcite Filter to neutralize permeate pH

See website for our full line of media filtration products



Mounting Bracket

(recommended)

Screw the mounting bracket to the wall first to simplify the mounting of the RO unit. Includes powder coated mounting plate with screws.

Part# A616 - for 27"L Units

Part# A615 - for 34"L Units



Quality Monitors

Pre-packaged wall mountable quality monitors

- **Permeate TDS**
60Hz Part# A242, 50Hz Part# A243
- **Feed TDS**
60Hz Part# A252, 50Hz Part# A253
- **Feed or Permeate pH**
60Hz Part# A244, 50Hz Part# A245



Floor Stand

Use this free-standing carbon steel powder coated frame to convert the WM unit to a floor unit.

Part # A626

Optional: Floor Stand Casters Kit

2 Locking & 2 Swivel for ease of mobility.

Part # A625



Tank Pressure Controls

To automatically turn the system on/off with the permeate storage tank level. For use with a pressurized storage tank (sold separately).

Part# A621 (220v/60Hz)



Ultraviolet (UV) Systems

Sterilize water for a 99.9% reduction of bacteria and viruses in the feed and/or permeate line. (For feed line, Wall Mount Filter Cartridge Assembly is required, shown above.)

See website for our full line of UV System products



Pressurized Storage Tank

Pressurized permeate storage tank available in 40 or 80 gallon volume. Assembly includes tank, valve, piping, tubing and pressure gauge.

40 Gallon Tank Assembly - Part # A612-40

80 Gallon Tank Assembly - Part # 4612-80



Prefilter Pressure Gauge

To allow for monitoring of the in/out pressure of the prefilter to indicate when the cartridge needs to be changed. Includes pressure gauge and fittings.

Part # A623



Tank Level Controls

Turns system on/off with tank level. Dual Float assembly (part# YFL2PPAS) for system on/off; Triple Float assembly (Part# YFL3PPAS) for system on/off and low level protection for re-pressurization pump (not included). For use with atmospheric storage tank (sold separately).

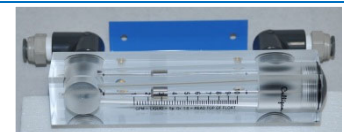


Flowmeters

Monitor system flows. Includes mounting bracket and fittings for connection of system tubing.

1-10 GPM Part # A107

0.5-5 GPM Part # A109



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