

ROMATE® STORAGE TANKS

PVC DRAIN



Pentair ROmate RO Storage Tanks are high-performance, high-value vessels for residential and light commercial reverse osmosis applications.

Specifically designed for reverse osmosis systems, these small vessels offer big advantages over competitive tanks via 100% seamless, composite construction, and the ability to discharge in any position.

FEATURES • BENEFITS

- ◆ Concave dome allows for maximum amount of service water
- ◆ High density polyethylene inner liner
- ◆ Fiberglass-wound and epoxy resin-sealed outer shell
- ◆ Durable PVC plumbing connections
- ◆ Environmentally safe and 100% lead-free
- ◆ Will not introduce chemicals or elements into the water
- ◆ Easy to install and service

APPLICATIONS

- ◆ RO/high purity water storage and dispensing

INSTALLATION TIPS

- ◆ Install a properly-sized pressure relief valve to help protect the tank from over-pressurization. The pressure relief setting should be less than the maximum rated operating pressure of the tank.
- ◆ To ensure adequate flow and pressure to the water-using equipment, do not reduce piping/tubing size between storage tank and distribution plumbing.
- ◆ Piping/tubing size from the RO unit to the storage tank can be smaller than the distribution piping/tubing from the storage tank to the water-using equipment.
- ◆ Product water tubing/piping and fittings should be suitable for use with high purity water.
- ◆ Select a location capable of supporting the normal operating weight of the tank with a safety factor of at least two (2) times.

OPERATION TIPS

Drain water from tank and check storage tank pre-charge pressure on an annual basis.

Sanitize storage tank on an annual basis.

As pre-charge pressure varies, so does stored water volume and usable pressure. To follow are two simple descriptions of that relationship when all other factors remain equal:

- ◆ Lower pre-charge pressures allow the storage tank to accept more water, but water pressure diminishes more rapidly as water is drawn.
- ◆ Higher pre-charge pressures allow the storage tank to accept less water, but water pressure diminishes less rapidly as water is drawn.

Rapid on-off cycling of the RO system may indicate insufficient pre-charge pressure. Drain water from tank and check pre-charge, then adjust as necessary.

SIZING

Usable capacity will vary based on tank size, pre-charge pressure and RO system on-off pressure setting. The data shown below is one capacity example based on a 28 psi (1.9 bar) pre-charge with usable storage between 30/50 psi (2.1/3.4 bar):

ROmate 20	5.8 gallons (22.1 L)
ROmate 40	11.9 gallons (45.0 L)
ROmate 80	25.6 gallons (96.9 L)
ROmate 120	35.4 gallons (134.0 L)

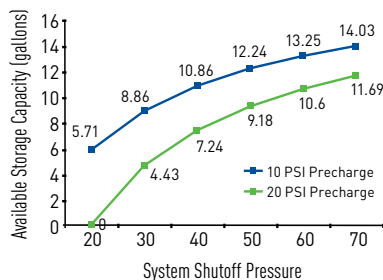


Tested and Certified by the Water Quality Association (WQA) to NSF/ANSI Standard 61 section 8 and NSF/ANSI 372 for lead free compliance.

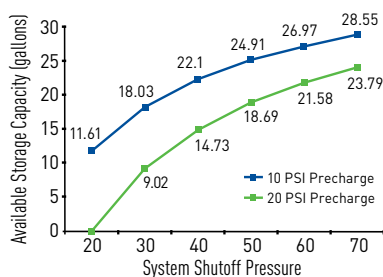
ROMATE® STORAGE TANKS

DRAW DOWN CHARTS

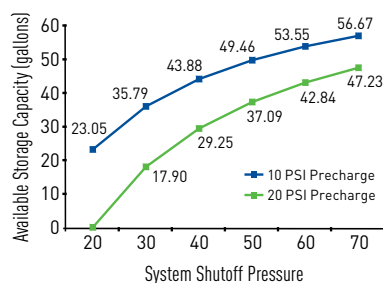
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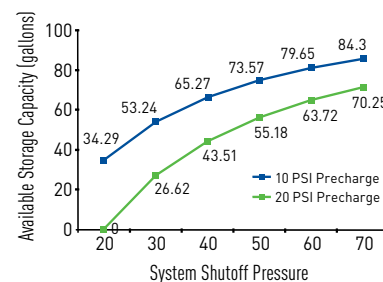
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R080



R0120



SPECIFICATIONS

Overall Dimensions

ROmate 20: 32" H x 16" D (81 cm x 41 cm)
 ROmate 40: 57" H x 16" D (145 cm x 41 cm)
 ROmate 80: 55.25" H x 24" D (140 cm x 61 cm)
 ROmate 120: 74.25" H x 24" D (189 cm x 61 cm)

Inlet and Outlet Connections

ROmate 20: 1" Male NPT
 ROmate 40: 1" Male NPT
 ROmate 80: 1-1/4" Male NPT
 ROmate 120: 1-1/4" Male NPT

Shipping Weight

ROmate 20: 24 lbs (10.9 kgs)
 ROmate 40: 35 lbs (15.9 kgs)
 ROmate 80: 63 lbs (28.6 kgs)
 ROmate 120: 90 lbs (40.8 kgs)

Approximate Operating Weight @ 50 psi

(3.45 bar) with 5 psi (0.35 bar) pre-charge
 ROmate 20: 134.0 lbs (60.8 kgs)
 ROmate 40: 264.0 lbs (119.8 kgs)
 ROmate 80: 561.5 lbs (254.7 kgs)
 ROmate 120: 780.2 lbs (353.9 kgs)

Operating Pressure

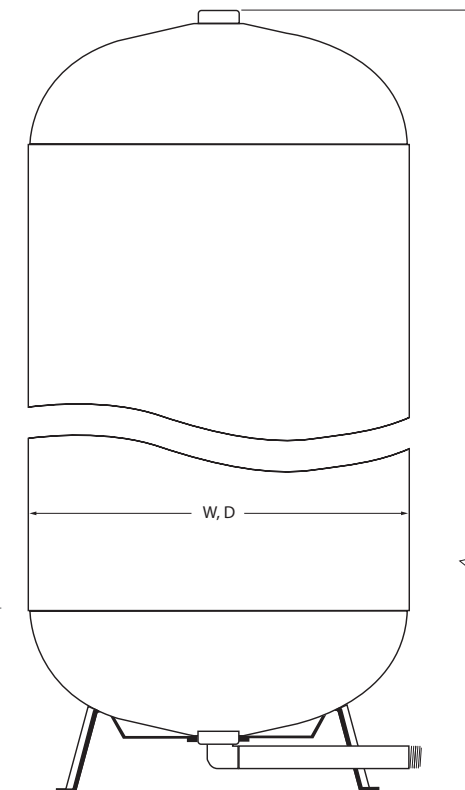
125 psi (8.62 bar), non-shock

Pre-Charge Pressure Requirements

5 - 50 psi (0.35 - 3.45 bar), typical

Water Temperature

maximum: 120°F (49°C)



Certified to
 NSF/ANSI/CAN 61
 & NSF/ANSI 372



WATER QUALITY SYSTEMS

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