

# ROMATE® STORAGE TANKS

## System Part Numbers:

ROMate 20: CH30839, CH30839-NP\*  
ROMate 40: CH30865, CH30865-NP\*  
ROMate 80: CH31054 CH31054-NP\*  
ROMate 120: CH34395 CH34395-NP\*



## APPLICATIONS

- ◆ Reverse osmosis
- ◆ High purity water storage

## SYSTEM DESCRIPTION

The ROMATE storage tanks are high-performance, high-value vessels for residential and light commercial reverse osmosis applications. These vessels offer big advantages over competitive tanks via 100% seamless, composite construction.

## FEATURES • BENEFITS

- ◆ Made with lead-free design and seamless composite construction to help reduce corrosion
- ◆ Built-in union connection
- ◆ Will not introduce chemicals or elements into the water
- ◆ Easy to install and service

## 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.
- ◆ 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.
- ◆ Pre-charge may need to be added or removed depending on the application. See reverse osmosis manual for suggested pre-charge pressure.

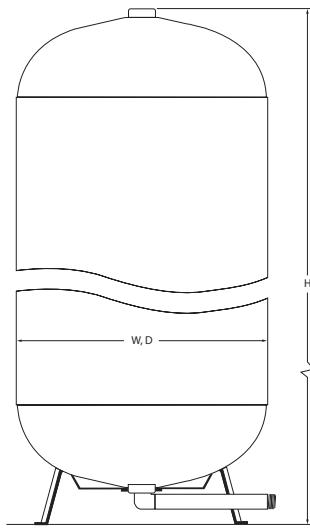
- ◆ As pre-charge pressure varies, so does stored water volume and usable pressure. To follow are two simple descriptions of that relationship when all other factors remain equal:
  - Lower pre-charge pressures allow the storage tank to accept more water, but water pressure diminishes more rapidly as 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.

\* "-NP" refers to "No Pre-charge".

Pre-charged tanks cannot be shipped by air. Part numbers for tanks shipped by air will have an "-NP" suffix and will need to be charged before use.

# ROMATE STORAGE TANKS

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## SPECIFICATIONS

### System

#### 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)

#### Operating Weight (approximate) @ 50 psi

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)

#### Connections Inlet/Outlet

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)

#### Sizing

Usable capacity varies based on tank size, pre-charge pressure and RO system on-off pressure setting. The data shown 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: 25.6 gallons (96.9 L)

#### Operating Pressure (non-shock)

25 - 80 psi (1.72 - 5.52 bar)

#### Minimum Static Pressure

125 psi (8.62 bar), non-shock

#### Pre-charge Pressure

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

#### Maximum Water Temperature

120°F (49°C)

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<http://pentair.com/assets/foodservice-warranty>.  
To receive a free copy email or call your Pentair representative using the information provided below.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



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



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