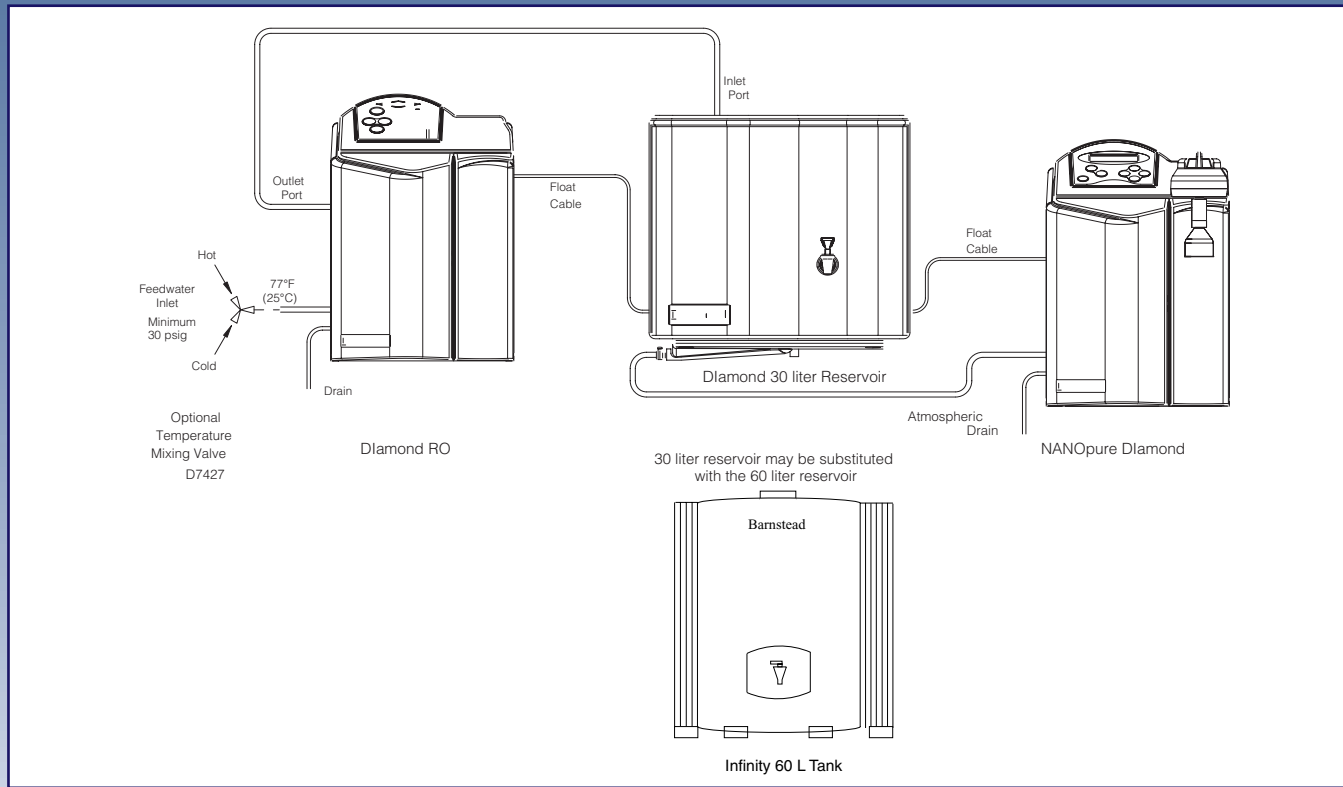


## Reverse Osmosis/Deionization



### Type I Ultrapure Water

(For RO water requirements up to 450 liters/day and ultrapure water requirements greater than 15 liters/day.)

- Fully automatic system

This system illustrates the use of the DIAMOND™ RO reverse osmosis system with 30/60 Liter reservoir as pretreatment for a NANOpure® DIAMOND deionization unit. This combination provides you with a cost effective method of producing water meeting your most demanding requirements.

The use of a DIAMOND RO reverse osmosis system provides a fully automatic operation providing you with up to 450 liters per day of reverse osmosis quality water and > 15 liters per day of Type I water when used with NANOpure DIAMOND. The DIAMOND RO will automatically turn on when the tank water level is reduced and will turn off when the tank is full.

Listed to the right are product water specifications that could be expected from this type of system.

*The Free W.A.T.E.R. Water Analysis To Evaluate and Recommend program assures that you are purchasing the correct system for your application, volume requirements and budget. See the W.A.T.E.R. test kit page for more information.*

### Water Qualities From Deionization System

- Type I Reagent Grade water
- Ultra low dissolved inorganic solids and gases, ASTM Type I up to 18.2 megohm-cm resistivity
- Ultra low dissolved organics, less than 1 ppb TOC with UV

### Applications

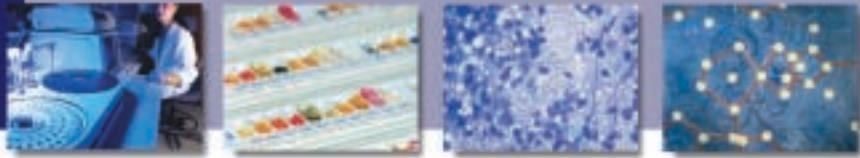
- HPLC
- GC/MS
- Cell & Tissue Culture
- Media Preparation
- ICP/MS
- AA
- IC
- TOC
- GC
- DNA Amplification

### Water Qualities From Reverse Osmosis System

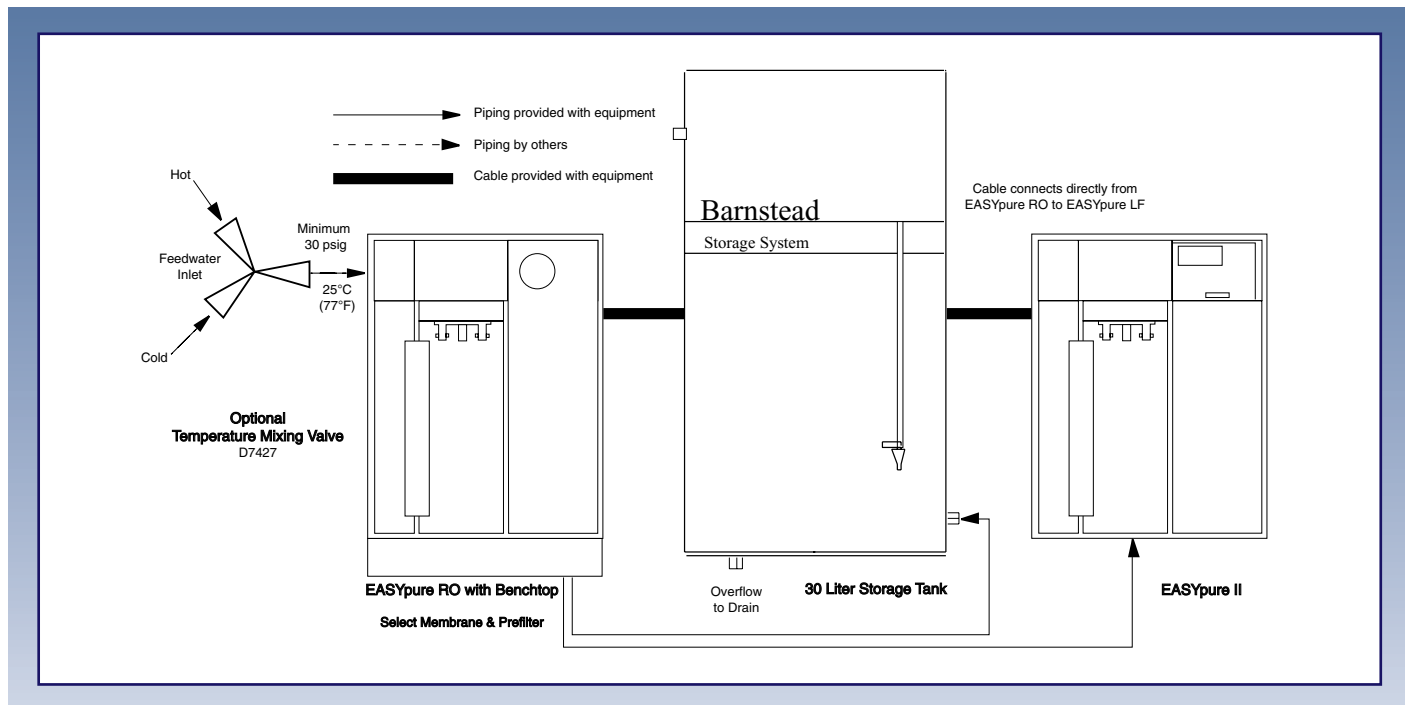
- 85-95% reduction of inorganic solids
- 99% reduction of 300 molecular weight or larger organic solids
- > 99% reduction of particles, bacteria and pyrogens

### Applications

- Pretreated water for feeding deionization systems, extending deionization cartridge life
- Purified water for general laboratory uses including glassware and plasticware washing



## Reverse Osmosis/Deionization



### Type I Ultrapure Water

(For RO water requirements less than 100 liters/day.)

- Fully automatic system
- Space saving design
- Low operating cost

This system illustrates the use of the EASYpure<sup>®</sup> RO reverse osmosis system as pretreatment for an EASYpure II ultrapure water system. When you require small quantities of very pure water, this system is unique in the industry.

The use of an EASYpure reverse osmosis system provides a fully automatic operation, supplying you with Type I water when you need it when used with an EASYpure II ultrapure water system. The EASYpure RO will automatically turn on when the tank water level is reduced and will turn off when the tank is full. This system with its space saving design is ideal for lower volume pure water requirements.

Listed to the right are product water specifications that could be expected from this type of system.

*The Free W.A.T.E.R. Water Analysis To Evaluate and Recommend program assures that you are purchasing the correct system for your application, volume requirements and budget. See the W.A.T.E.R. test kit page for more information.*

### Water Qualities from Deionization System

- Type I Reagent Grade water
- Ultra low dissolved inorganic solids and gases, ASTM Type I up to 18.2 megohm-cm resistivity
- Ultra low dissolved organics, less than 10 ppb TOC or 2 ppb TOC with UV

### Applications

- HPLC
- GC/MS
- Cell & Tissue Culture
- Media Preparation
- ICP/MS
- AA
- IC
- TOC
- GC
- DNA Amplification

### Water Qualities From Reverse Osmosis System

- 85-95% reduction of inorganic solids
- 99% reduction of 300 molecular weight or larger organic solids
- > 99% reduction of particles, bacteria and pyrogens

### Applications

- Pretreated water for feeding deionization systems, extending deionization cartridge life
- Purified water for general laboratory uses including glassware and plasticware washing