

Standard Purified Water Pretreatment System



Standard Pretreatment System Designed for the Bottled Water Industry

Norland pretreatment systems are custom-engineered and manufactured to meet local water conditions and flow rate requirements.

The systems utilize an ion exchange water softener and a variety of filtration methods. The deluxe systems incorporate activated carbon filtration to remove chlorine, bad tastes and odors from the feed water. Norland's automatic water softeners have been designed for light commercial and industrial applications. Since they are designed to deliver a continuous, uninterrupted supply of softened water, they are ideally suited to treat the feed water before distillation or reverse osmosis purification. Standard systems range in size from 16,000 grains to 128,000 grains per resin tank and flow rates up to 24 gallons (91 L) per minute or more.

The softener is a twin resin tank with a single brine tank and control valve. The metered control valve measures the water that is softened, which optimizes regeneration frequency and only regenerates when required. One tank is always in service while the second is in the stand-by or regeneration mode—assuring a constant supply of softened water. This feature lowers operating costs and reduces salt and water consumption.

Norland Int'l. Inc.

**Your
Complete
Source**

Packaging - Processing

Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com

Standard Pretreatment Systems Process a Variety of Source Waters

The softener system can regenerate as often as once every four hours. This gives you the performance and capacity of a larger system while providing the ultimate in system flexibility and reliability. Softened water from the tank currently in service is used to regenerate the other tank, which further maximizes system efficiency. Spiral-wound poly glass resin tanks and heavy-duty polyethylene brine tank are corrosion-resistant for a long, durable and trouble-free service life.

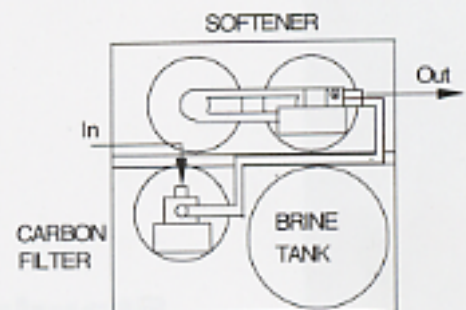


Only high-capacity cation resin is used in the Norland softeners. No hard water is ever bypassed around the softener to the RO/Distiller feed water supply line.

Dual-tank Softener

Carbon Filter

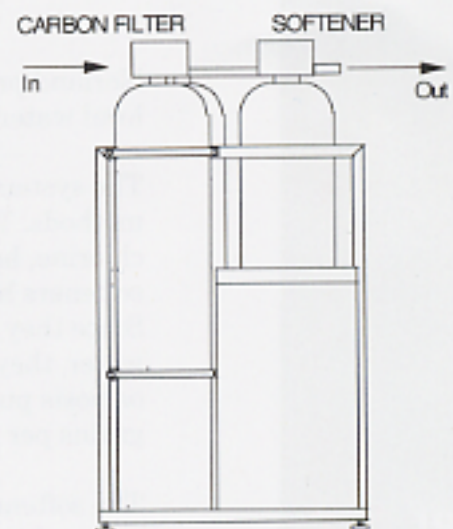
Brine Tank



System Specifications (Standard for 4000 GPD System)

Brine tank (1)	35-gal (132 L)
Carbon filter (1)	2 ft ³ (0.06 m ³)
Softener (2 tanks)	1 ft ³ (0.03 m ³)
Dimensions	34" W x 34" D x 68" H (86 cm W x 86 cm D x 173 cm H)
Weight	550 lb (249 kg)
Electrical Specs	
Voltage	110V/60Hz, 220V/50 Hz
Phase	Single
Amps	2

Note: Above standard for water with the following: TDS <2000 ppm; Hardness <15 grains; iron + manganese <0.3 ppm; Chlorine <1.0 ppm. Equipment sizing depends on detailed water analysis of water to be treated. Carbon filter may not be present for pretreatment of non-chlorinated supplies.



Pretreatment

Norland Int'l. Inc.

Your *Complete* Source

P.O. Box 67189 • Lincoln, NE 68506 USA • (402) 441-3737 • Fax: (402) 441-3736
• E-mail: bk@norlandintl.com • www.norlandintl.com
©2006 Norland Int'l. Inc. • 0905LL

Packaging - Processing

Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com