

Norland Systems Make Fresh, Clean Water—up to 3000 Gallons a Day!

Water purification by the distillation method is a natural process that occurs daily in nature. The challenge is in designing and manufacturing an effective, efficient system that can duplicate nature's distillation process and provide high-quality, distilled water at the lowest possible cost. Norland vapor compression (VC) water distillation systems provide this, and much more!

Norland VC systems feature:

- Easy installation
- Solid-state operational controls
- Minimal preventive maintenance
- Dependability
- Up to 3000 gallons (11,340 litres) of distilled water per day
- Low operational costs

Easy Installation and Solid-State Operational Controls

Norland VC systems require a minimum number of plumbing and electrical connections, making initial installation quick and simple. So simple, in fact, that they can be owner-installed. Once installed, Norland systems operate automatically and efficiently, using solid-state controls specifically designed to constantly monitor system operations. Automatic safety shutoffs ensure that water purity levels are properly maintained at all times. With Norland, there is no need for regular operator attention.

Minimal Maintenance

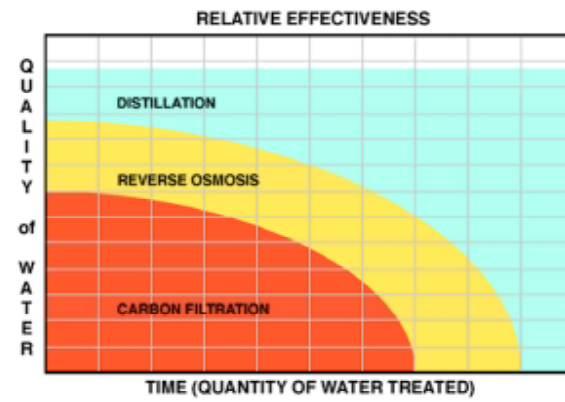
Norland VC systems are low maintenance units. Doors and exterior panels can be removed easily for routine cleaning, and their "tube-in-shell" design permits nondestructive inspection and cleaning. For added convenience, Norland units are wheel-mounted for easy moving and are sized to pass through standard 36-inch doorways.

Dependability

Norland VC systems are designed for maximum operating dependability, using the highest grade of materials and components available. Stainless steel and other heavy-duty components are designed to ensure long operational lives for all Norland VC systems. Throughout production, each unit passes through our rigid quality control process, and then undergoes complete operational testing before it is approved for shipment.

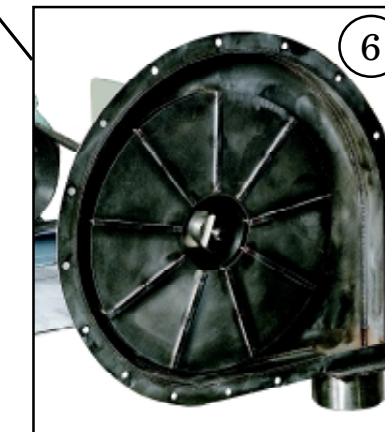
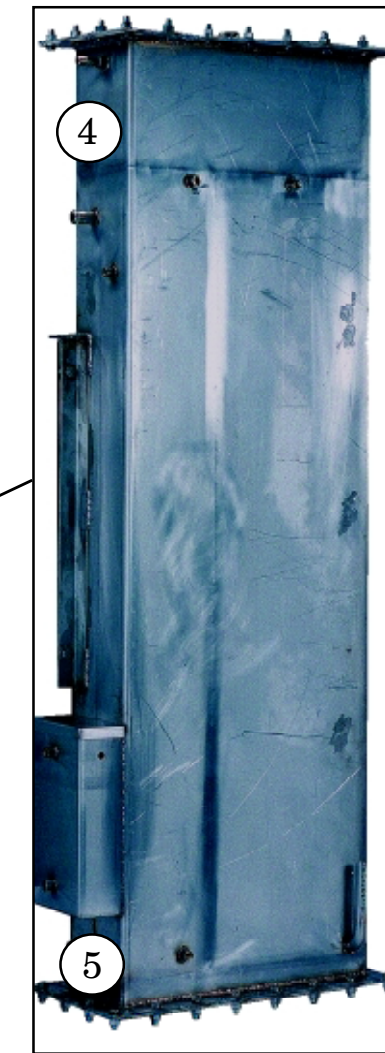
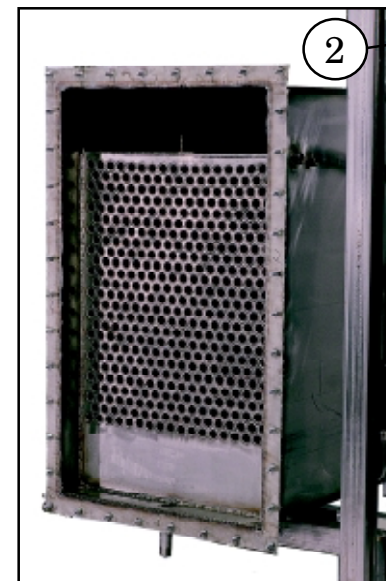
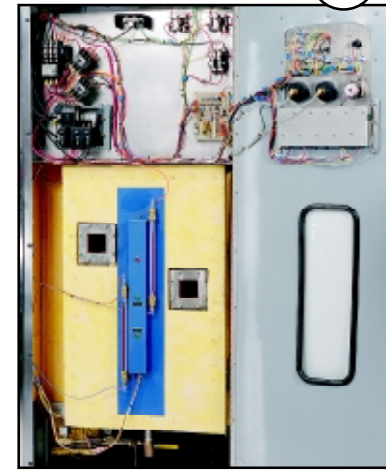
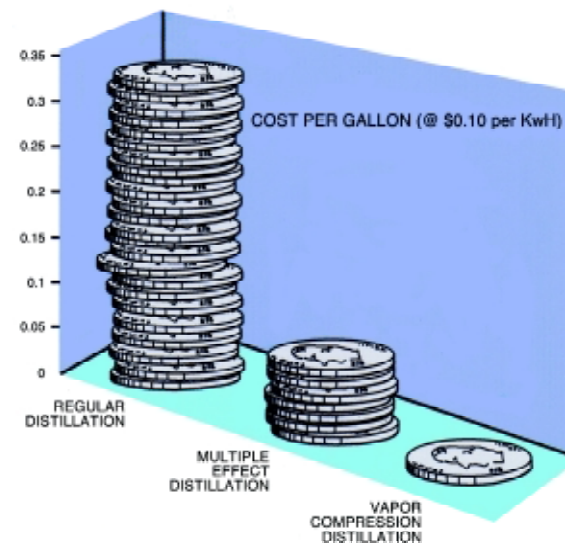
Norland VC Systems Provide Up to 3000 Gallons Per Day of High-Quality Distilled Water

You can't beat the quality of Norland-produced distilled water. Output will typically contain less than one ppm of total dissolved solids after distillation. Our process removes up to 99.9% of all possible contaminants.



Low Operational Costs

Norland VC systems are designed specifically for maximum operating efficiency and overall energy consciousness. Normal operation of the VC3000 and VC1500 requires only 0.12 Kw/H of electrical power to produce one gallon (3.78 litres) of distilled water, which translates into a cost of less than U.S. \$0.01 (cents) for one gallon (3.78 litres) of distilled water. Additionally, while most distillation methods can use up to eight gallons (30.24 litres) of reject water for every gallon (3.78 litres) of water they distill, Norland VC systems distill nearly six gallons (22.7 litres) of water for every one gallon (3.78 litres) of reject water produced. This provides additional operational savings, and also allows you to be water-conscious at the same time.



Key Features of Norland Vapor Compression Distillers

1. Electronic control panel is easily accessed for servicing. One solid-state circuit board controls operation of the complete system.

2. Submerged tube-in-shell heat exchanger provides efficient and uniform heat transfer. The end plates are removable for one-step access to the heat transfer bundles, if necessary. The end plates include Pyrex® sight glasses for easy monitoring of heat exchanger cleanliness.

3. Removable exterior panels allow full access to internal components for quick, easy servicing.

4. Continuous flow evaporator produces very high quality distilled water at maximum efficiency.

5. Feedwater/distillate heat exchanger preheats the feedwater, and cools the distilled water at maximum efficiency.

6. Sturdy one-piece aluminum rotor provides the strength required for a long, durable, trouble-free life, while being extremely lightweight.

7. Compressor bearings are the self-aligning pillow type, for long life and easy maintenance and replacement.