DISTILLED WATER BENEFITS

What is distilled water?

Distilled water is defined as chemically pure water that has had all impurities removed through the process of evaporation and condensation.

What industries use distilled water & what is its purpose?

Laboratories

Labs use distilled water to remove contaminants and minerals which might otherwise taint lab results.

Medical Fields

Medical fields use distilled water to clean wounds, sterilize medical instruments, scrub pre-surgery to prevent infections and cross-contamination, as well as wash away bacteria when dentists perform tooth extraction or root canal treatments.

Food & Beverage Industries

Water bottling plants and water delivery companies use distilled water to offer pure drinking water to billions of consumers worldwide.

Many beverage producers choose distilled water to ensure their products contain the purest water available without the risk of trace particles. Fruit and vegetable producers use distilled water to maintain vibrant colors and ensure maximum quality.

Hydroponic Farming

Using distilled water for plants results in better governance of nutrients and minerals and faster plant growth.

Automotive Industry

Vehicles with open cell batteries use distilled water because it is free from additional minerals and corrosive particles which might otherwise shorten the operational life of the battery.

Norland INTERNATIONAL

For over 30 years, Norland has been the leading packaging equipment manufacturer. We have experience in many aspects of package processing, whether it be design, manufacturing, assembly, service, planning, or distribution.

Look to Norland International as your resource for unparalleled years of industry experience, knowledge, and expertise. We know that your business is a significant investment, and we understand the time, work, dedication, and resources you have put into it. That's why our team of experts is here to provide decades of insight and support as you grow your business.

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VAPOR COMPRESSION DISTILLERS

Distilled Water Solutions

Norland INTERNATIONAL

LINCOLN, NEBRASKA USA

VAPOR COMPRESSION DISTILLERS

No matter your water source, Norland has a solution for you. Our engineers are incredibly knowledgeable when it comes to your water and how to get the most from it. With nearly 30 years of experience, Norland has designed and manufactured an effective, efficient system that can duplicate nature's distillation process and provide high-quality, distilled water at the lowest possible cost.

Purify your water by distillation to reach your business's full potential. These patented water purification systems provide up to 6,000 GPD of superior, distilled water, removing up to 99.9% of possible toxins and impurities. Created for optimal output efficiency with little energy use, our VC Distillers generate far less wastewater than alternative distilling equipment.

- **Production of up to 800 to 6,000 GPD**
- **Efficient Operating Costs**
- **Low Maintenance**
- **Continuous Flow Evaporator**
- **Reliable Solid-State Controls**

Utilities

Electrical: 3 phase, 208-240 volt
*other options may be available

VC800 Dimensions: Height: 66", Length: 39", Width: 34", Weight: 1,560 lbs

VC1500 Dimensions: Height: 82", Length: 51", Width: 38", Weight: 1,700 lbs

VC3000 Dimensions: Height: 82", Length: 72", Width: 38", Weight: 3,000 lbs

VC6000 Dimensions: Height: 87", Length: 90", Width: 66", Weight: 8,000 lbs

FEATURES

PLC control panel and solid state controls maintain the complete system and allow easy access for servicing.

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 and include Pyrex sight glasses for monitoring cleanliness inside.

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

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

Feedwater/distillate heat exchanger preheats the feedwater at the entrance and cools the distilled water as it exits.

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

Compressor bearings are self-aligning for long life and easy maintenance and replacement.

FLOW

STEP 1 As both heating elements are turned on, your feedwater enters the first heat chamber and flows into the boiling chamber.

STEP 2 The distillation process begins in the boiling chamber. As your water begins to boil, evaporation creates steam that flows up through a baffling system into the compressor.

STEP 3 In the compressor, the steam is pressurized, which raises the steam's temperature before it is routed through the second heat exchanger located inside the boiling chamber.

STEP 4 As the pressurized steam flows through the second heat exchanger, it gives up its "latent heat of evaporation" to the feedwater inside the boiling chamber, which creates more steam.

STEP 5 The outgoing condensation is cooled before exiting the vapor compressor as distilled water.