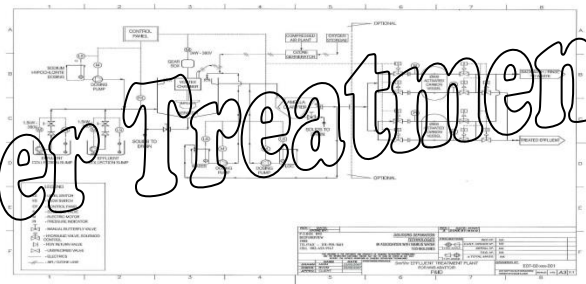


# Water treatment & purification solutions

# Water Treatment



## Nimbus Treatment-Package Plant – Skid or Container Systems

- Designed Water Treatment Plant.
- 1.2 – 400 m<sup>3</sup> / day & highly flexible.
- Quick Start-up vs. conventional civil works.
- Fully Automatic and Mess Free.
- Meet any raw water treatment requirements.
- Typical applications include, wastewater in general, shopping centers, Camps, Military, Schools, Universities, housing projects, hotels, lodges, games farms, hospitals, remote locations, mining waste water, commercial & industrial effluent to discharge standards.



## Drinking Water Treatment Technologies

The products on the market today utilize many different technologies. NSF currently evaluates commercial & residential water treatment products that utilize one of the technologies listed below. The applicable NSF/ANSI standard that applies to each technology is shown in parentheses.

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Technology	Description of Product Technology
Filtration (NSF/ANSI 42 & 53)	This is the physical process that occurs when liquids, gases, dissolved or suspended matter adhere to the surface of, or in the pores of, an adsorbent medium. Carbon filters use this technology to filter water.
Softeners (NSF/ANSI 44)	Water softening devices covered by Standard 44 use a cation exchange resin, regenerated with sodium chloride or potassium chloride, to reduce the amount of hardness (calcium, magnesium) in the water. The hardness ions in the water are replaced with sodium or potassium ions.
Ultraviolet Treatment (NSF/ANSI 55)	This treatment style uses ultraviolet light to disinfect water (Class A systems) or to reduce the amount of heterotrophic bacteria present in the water (Class B systems).
Reverse Osmosis (NSF/ANSI 58)	A process that reverses, by the application of pressure, the flow of water in a natural process of osmosis so that water passes from a more concentrated solution to a more dilute solution through a semi-permeable membrane. Most reverse osmosis systems incorporate pre- and post-filters along with the membrane itself.
Distillers (NSF/ANSI 62)	These systems heat water to the boiling point and then collect the water vapor as it condenses, leaving many of the contaminants behind, particularly the heavy metals. Some contaminants that convert readily into gases, such as volatile organic chemicals, may be carried over with the water vapor.

**Styles of Water Treatment Devices**

There are several styles of water treatment devices available on the market today. The most common styles are listed below, along with a brief description of each.

**Point-of-Entry (POE) System**

These systems typically treat most of the water entering a residence. Point-of-entry systems, or whole-house systems, are usually installed after the water meter. (Water meters are usually located in the basement of a house. In warm weather climates, the water meter may be in the garage or outside of the house.) A water softener is an example of a POE system.

**Point-of-Use (POU) System**

These systems typically treat water in batches and deliver water to a single tap, such as a kitchen sink faucet or an auxiliary faucet mounted next to the kitchen sink. The following information contains a brief explanation of different POU systems and points to consider when determining which style of a system will best suit your needs. The list is ordered from easiest installation/operation to more difficult or complex installation/operation and should not be construed as any type of recommendation.



- **Designed for potable water, effluent or wastewater treatment requirements and end result required.**
- **Any Capacity and designed to specifications.**
- **From design, fabrication, installation, commissioning and on-site training, a Nimbus WWTP will deliver the results.**
- **Meet future legislation requirements with regard to discharge of wastewater, or effluent.**

**Robust Operation –**

**Nimbus Water Treatment Package Plant meet stringent standards consistently. Backed by EEC International design & service.** Nimbus Water Technologies SA (Pty) Ltd

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