

Beverage Make-Up Water

Most soft drinks, beer and other common beverages, comprise of more than 90% water. The quality of water is therefore crucial for a good tasting beverage. Beverage manufacturers adhere to strict water quality standards to meet health regulations and to produce safe, standardized water that maintains consistency in flavor, color and body. Impurities, such as suspended particles, certain dissolved solids (or ions), metals, organic matter and bacteria may result in taste and color defects. Membrane filtration technologies including ultrafiltration (UF), nanofiltration (NF) and reverse osmosis (RO) are commonly used to remove such impurities and produce the desired water quality ideal for beverages.

TurboClean® Beverage UF 10K elements may be used to remove larger particles present in the beverage make-up water and deliver high quality water for soft drinks, energy drinks and bottled water. The TurboClean® Bev 8040-UF element features a 10 kDa membrane suitable to remove suspended particles, proteins and viruses.

TurboClean® Beverage Cellulose Acetate RO and NF elements are the best performing cellulose acetate (CA) membrane elements for producing high quality water for beverage production. These elements have been certified to NSF/ANSI Standard 61 for use in drinking water systems. The combination of the patented TurboClean hard shell technology with the chlorine tolerance of CA membranes makes these elements optimal for ensuring a safe and sanitary system environment.

TurboClean® Beverage Thin-Film Composite RO elements deliver high purity, low TDS (dissolved solids) water for beverages. TurboClean Beverage RO elements are available in several membrane chemistries: standard high rejection RO - ACM2, low-fouling RO - X-20™, and low-energy RO - LE.

The patented TurboClean hard shell offers a safe and sanitary operating system with none of the stagnant areas created by the brine seals of fibreglassed membrane elements where bacterial growth is often found.

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