

Water treatment method used in baromembrane water purification processes involves the use of strong-acid cation exchange resins in the sodium form. Raw water is clarified using mechanical and ultrafiltration filters. The clarified water is passed through a cation exchange filter filled with a strong-acid cation exchange resin in the sodium form, and the softened water is fed to a reverse osmosis system. The strong-acid cation exchange resin is regenerated using the concentrate produced during reverse osmosis desalination of the water.