

The MIEX[®] High Rate Process

Advanced Dissolved Organic Carbon Removal

Raw Water (1)

Untreated water enters the process and flows up through the suspended resin.

Contactor (2)

Water is dispersed through a suspended resin zone allowing for 4-6 minutes of contact time. Resin is retained within the contactor through resin to resin magnetic attraction and tube settlers.

Fresh Resin Tank (3)

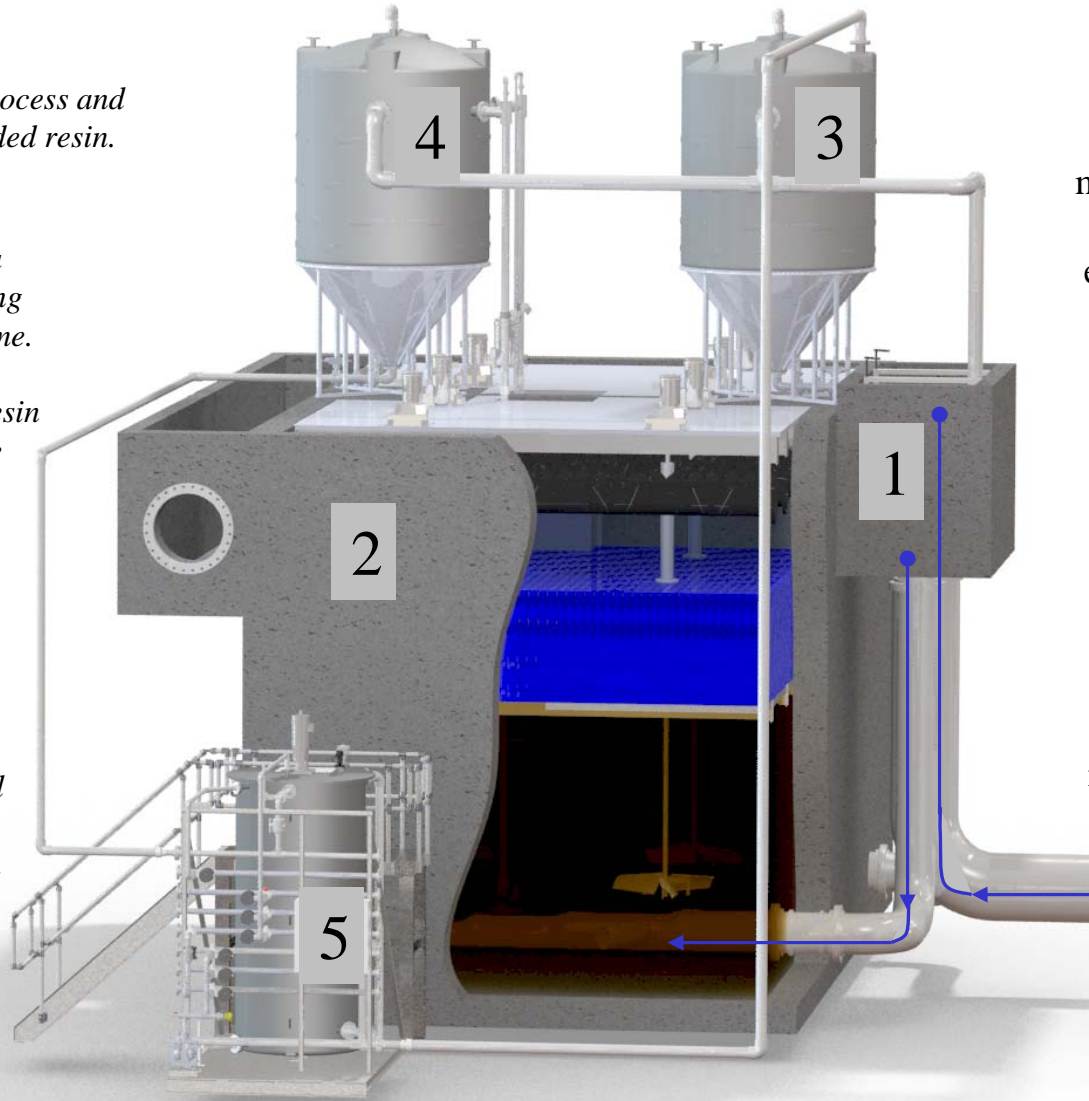
Regenerated resin is returned to the contactor by gravity as loaded resin is removed.

Resin Transfer Tank (4)

Loaded resin is concentrated in this tank until it can be sent to the regeneration skid.

Regeneration Skid (5)

Is where resin is replenished with chlorides. This skid contains the regeneration vessel, the brine pump, and the resin transfer pump.



The MIEX[®] Process provides a simple, cost effective, solution for meeting EPA DBP standards through continuous ion exchange pretreatment with the MIEX[®] DOC Resin.

MIEX[®] DOC Resin removes negatively charged anions by displacing a chloride ion on the resin for the more preferred DOC ions. Intermittently, loaded resin is refreshed through a brine regeneration cycle, removing the DOC for fresh chloride ions.

MIEX[®] DOC Resin is unique in that it contains a weak magnetic property which attracts resin to resin particles. This property enables upflow treatment while minimizing resin loss.