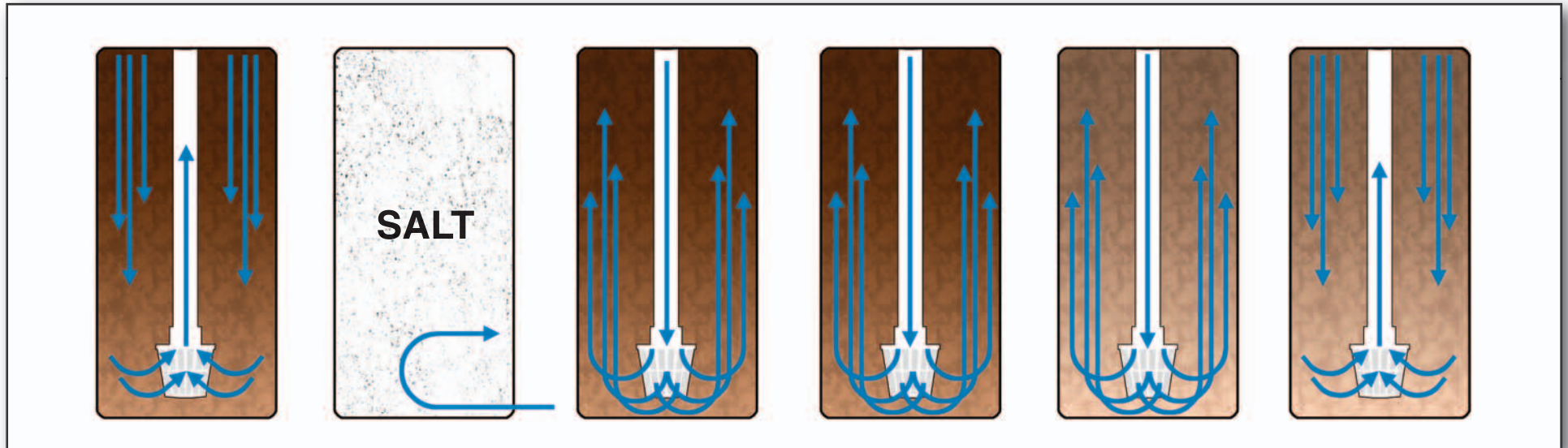


The PINNACLE Up-flow Brining Process



Service

Normal operation of the unit. Water is softened and filtered as it flows down through the resin.

Brine Fill

The exact amount of soft water needed is pumped through the salt tank to create brine.

Brine Draw

Brine, drawn from the salt tank down through the riser, flows up through the stratified resin bed, lifting the hardness out of the tank.

Slow Rinse

A slow rinse moves the brine through the blended resin, providing additional hardness and iron removal.

Backwash

A final counter-current rinse cleans and stratifies the resin bed.

Fast Rinse

Repacks the resin bed and prepares the system to return to service.

Benefits of the Up-flow Brining Process

- (1) Better cleaning of the resin and other filtering media
- (2) Uses less water and salt during recharge process
- (3) Reduces slippery, slimy feeling of traditional water softeners
- (4) Dry salt storage virtually eliminates salt bridging and caking
- (5) Less wear on resin and other filtering media due to over recharging