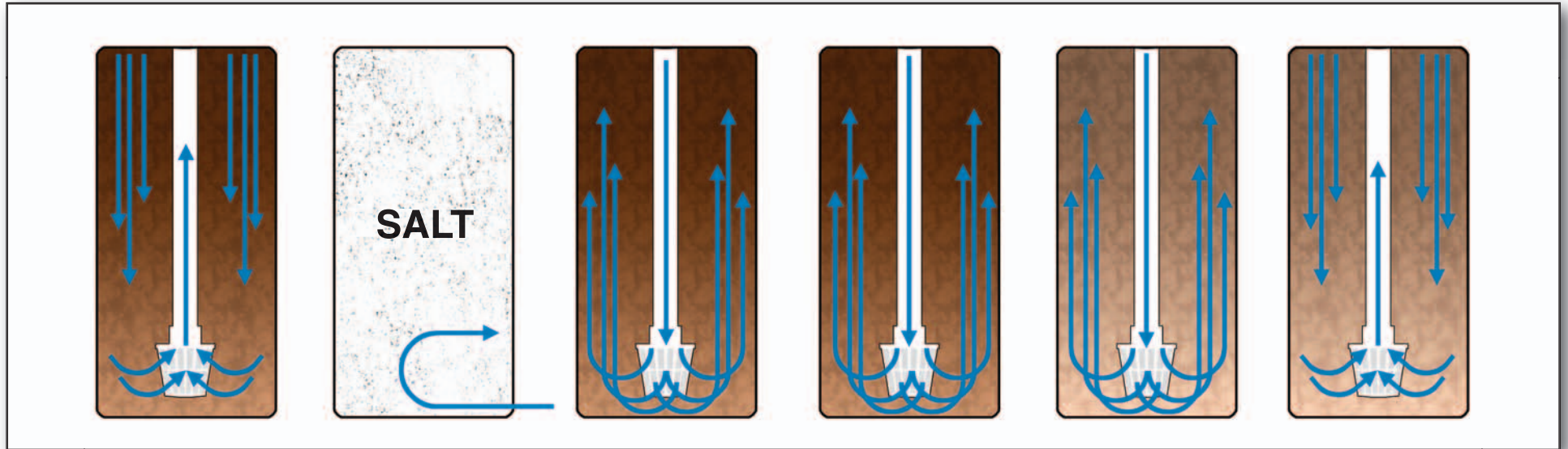


# The PINNACLE Up-flow Brining Process



## 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