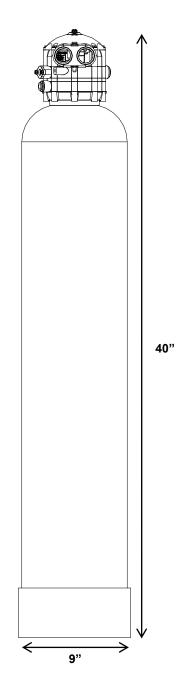
# Kinetico ESSENTIAL

### SERIES™

WATER SOFTENERS

<b>Design Specifications</b> Flow Rate 15 psid
Flow Rate 15 psid
Flow Rate 30 psid
Pressure Range*
Temperature Range35 – 120° F
Free Chlorine≤ 2.0 mg/L
Compensated Hardness ≤ 50 gpg
Iron (ferrous)< 0.5 mg/L
Iron (ferric < 0.01 mg/L
System Components
Media Vessel (qty.) Size(1) 9" x35"
Media Vessei (qty.) 5ize(1) 9 x55
Media Vessel ConstructionWrapped Polyethylene
Empty Bed Volume
Media TypeNon-Solvent, High Capacity Cation Resin
Media Volume (per tank)
Free BoardNone
Riser Tube
Upper Distributor
Lower Distributor
Regeneration Control
Service Flow
Regeneration Flow
Regeneration TypeCountercurrent
Hard Water By-pass During Regeneration Automatic
Water Used for Regeneration Inlet Water, Unprocessed
Water Used for Brine Tank FillSoftened
Salt Capacity (pellet) (18x35 brine drum)200 lbs
System By-passOptional
Connections
Inlet / Outlet ConnectionsCustom Adapter
Drain Connection
Brine Line Connection
Brine Tank Overflow
Power,
Power,None
Power,None  Essential Part Numbers
Power,None  Essential Part Numbers Platinum
Power,None  Essential Part Numbers
Power,None  Essential Part Numbers Platinum
Power, None  Essential Part Numbers  Platinum 15210  Platinum, No Brine Drum 15195
Power, None  Essential Part Numbers  Platinum 15210  Platinum, No Brine Drum 15195  Dimensions and Weight
Power, None  Essential Part Numbers  Platinum 15210  Platinum, No Brine Drum 15195  Dimensions and Weight  Height 40 in
Power,         None           Essential Part Numbers         15210           Platinum         15195           Dimensions and Weight         40 in.           Width         9 in.
Power, None  Essential Part Numbers  Platinum 15210  Platinum, No Brine Drum 15195  Dimensions and Weight  Height 40 in.  Width 9 in.  Depth 9 in.
Power,         None           Essential Part Numbers         15210           Platinum         15195           Dimensions and Weight         40 in.           Height         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs
Power, None  Essential Part Numbers  Platinum 15210  Platinum, No Brine Drum 15195  Dimensions and Weight  Height 40 in.  Width 9 in.  Depth 9 in.
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.
Power, None
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Height.         40 in.           Width         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle.         13.5 minutes
Power, None
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Height.         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle         13.5 minutes           Total Regen Cycle Time         15.0 minutes           Total Regen Volume         9.5 gallons
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Height.         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle         13.5 minutes           Total Regen Cycle Time         15.0 minutes           Total Regen Volume         9.5 gallons
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Height.         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle         13.5 minutes           Total Regen Cycle Time         15.0 minutes           Total Regen Volume         9.5 gallons           Salt Used per Regen         1.25 lbs
Power,         None           Essential Part Numbers         15210           Platinum         15195           Dimensions and Weight         40 in.           Height         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle         13.5 minutes           Total Regen Cycle Time         15.0 minutes           Total Regen Volume         9.5 gallons           Salt Used per Regen         1.25 lbs.           Salt Dose         2.1 lbs./cubic foot
Power,         None           Essential Part Numbers         15210           Platinum,         15195           Dimensions and Weight         40 in.           Height.         40 in.           Width         9 in.           Depth         9 in.           Shipping Weight         60 lbs.           Operating Weight         300 lbs.           Regeneration Sequence         Offline Time During Regen Cycle         13.5 minutes           Total Regen Cycle Time         15.0 minutes           Total Regen Volume         9.5 gallons           Salt Used per Regen         1.25 lbs

## **Essential Platinum**



## **Essential Platinum**

#### **Operating Profile**

The softener shall remove hardness to less than 2 grains per gallon when operated in accordance with the operating instructions. The system shall provide soft water using a simplex (single tank) configuration. System regenerations shall be initiated based on gallons processed. The adjustable meter shall allow regenerations to be set within 5.2 gallon increments.

#### **Regeneration Control Valve**

The regeneration control valve shall be top mounted (top of media tank), and manufactured from non-corrosive materials. Control valve shall not weigh more than 4.4 lbs. Control valve shall operate using a minimum pressure of 25 psi. Pressure shall be used to drive all valve functions. Control valve shall incorporate five operational cycles including; service, brine draw, slow rinse, fast rinse and brine refill. Service cycle shall operate in an upflow direction. The brine cycle shall flow downflow, providing countercurrent regeneration. Control valve shall contain a fixed orifice eductor nozzle and a backwash flow control. The control valve will allow the by-pass of untreated water to service during the regeneration cycle. Control valve shall be certified to standard NSF/ANSI 61.

#### **Media Tanks**

The tanks shall be designed for a maximum working pressure of 125 psi and hydrostatically tested at 300 psi. Tanks shall be made of polypropylene and reinforced with a fiberglass wrapping. Tank shall have a 2.5" threaded top opening. Tank shall be NSF/ANSI 44 approved. Upper and lower distribution system shall be of a cone slot design. Distribution system shall provide even distribution of regeneration water and the collection of processed water.

#### **Conditioning Media**

Each softener shall use non-solvent, high capacity cation resin having a minimum exchange capacity of 30,000 grains removed per cubic foot of media when regenerated with a dose of 15 lbs of salt per cubic foot of media. The media shall be solid, of a proper particle size and shall contain no plates, shells, agglomerates or other shapes that might interfere with the normal function of the water softener.

#### **Brine System**

A combination salt storage and brine production tank shall be manufactured of corrosion resistant, rigid polyethylene. The brine tank shall have an internal brine well chamber to house the brine valve assembly. The brine float assembly shall allow for adjustable salt settings and shall provide for a shutoff to the brine refill. The brine tank shall include a safety overflow connection to be plumbed to a suitable drain.