

# LIGHT COMMERCIAL/RESIDENTIAL WATER SOFTENERS (TAC GROUP)



Featuring a twin mineral tank system, the TAC Group is engineered for the most demanding light commercial and heavy residential needs.

The TAC Group (Twin Alternating Class) features a twin mineral tank system governed by a meter initiated control valve. One softener tank is in service, delivering soft water, while the second softener tank is held in reserve. When the softening capacity of the service tank is exhausted, the control valve automatically switches the water flow to the reserve tank. The exhausted tank regenerates immediately and then becomes the reserve. This ensures a continuous supply of soft water without the risk of hard water getting into the service flow, making the TAC Group ideal for feed water pretreatment of commercial and industrial reverse osmosis systems.

## Technical Specifications & Features

- Recommended maximum operating pressure: 100 psig (690 kPa)
- Recommended maximum operating temperature: 100°F (38°C)

## Main Control Valve

- Single valve per system (two tanks) controls all softener functions
- Electro-mechanical timer controls all valve cycles including service, backwash, brine draw, slow rinse, fast rinse and brine tank refill
- Meter initiated regeneration
- 9000 and 9500 control valves constructed of lead freebrass\*;
- 9100 control valve constructed of fiber reinforced polymer
- Main piston is also lead-free\* brass with a Teflon coating



## Main Control Valve (continued)

- Simple threaded (NPT) inlet, outlet and drain connections
- CSA certified valves (in Canada, except 9100 which uses a 24VAC Class 2, certified transformer)

\* as defined under Section 1417(d) of the U.S.E.P.A. Safe Drinking Water Act.

## Softener Tanks and Internals

- Seamless polyethylene liner wrapped with a continuous filament wound/epoxy resin fiberglass shell
- PVC hub/lateral flow distributor and riser tube with washed quartz support bed
- Tanks up to and including 24" diameter are manufactured by Superior Water Conditioning.
- Brine tanks are one-piece rotationally molded polyethylene with lid, air check valve assembly, brine well and salt support

## Resin

- Premium quality ion exchange softening resin, selected for resistance to fouling and minimum salt usage
- FDA Grade

## Optional Features

- 9100 control valve
- Electronic controller (XT or SXT)
- Brine tank safety float
- Optional brine tank sizes
- Sodium Chloride Dealkalizer anion resin systems (DTMI Systems)

## Warranty

All equipment is warranted against defects in material or workmanship for the following periods:

- Fiberglass tanks - 5 years
- Brine Tank - 1 year
- Control Valve and Electronics - 5 years
- Brine Tank Air Check - 2 years
- All other components are for a period of one year

# LIGHT COMMERCIAL/RESIDENTIAL WATER SOFTENERS (TAC GROUP)

## TAC Group Light Commercial/Residential Softener Specifications

| Model             | Capacity (grains)<br>@15 lb salt/cu.ft.<br><i>@10 lb salt/cu.ft.</i> | Resin*<br>Volume<br>cu.ft.<br>(c.u.m.) | Critical<br>Application<br>Max. Flow Rate<br>usgpm (lps) | Flow Rates<br>usgpm (lps) |                     | Max. Flow<br>to Drain<br>usgpm<br>(lps) | Salt per Regen.<br>lbs (kg)<br>@15lb salt/cu.ft.<br><i>@10lb salt/cu.ft.</i> | Mineral<br>Tank<br>Dimensions<br>inches (mm) | Brine Tank<br>(CANADA)<br>Dimensions<br>inches (mm) | Brine Tank<br>(USA)<br>Dimensions<br>inches (mm) | Approx. Space<br>Required<br>inches (mm) |                    |                     | Shipping<br>Weight<br>lbs<br>(kg) |
|-------------------|--|--|--|---------------------------|---------------------|---|--|--|---|--|--|--------------------|---------------------|-----------------------------------|
|                   |  |  |  | 15 psi<br>drop            | 25 psi<br>drop      |   |  |  |   |  | Height                                   | Depth              | Width               |                                   |
| TAC<br>30-3/4"    | 30,000<br><i>27,000</i>  | 1.0<br><i>(.028)</i>                   | 5<br><i>(0.32)</i>                                       | 13<br><i>(0.82)</i>       | 18<br><i>(1.14)</i> | 2.0<br><i>(0.13)</i>                    | 15 (6.8)<br><i>10 (4.5)</i>  | 9 x 48<br><i>(229 x 1219)</i>                | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 59<br><i>(1499)</i>                      | 25<br><i>(635)</i> | 62<br><i>(1575)</i> | 250<br><i>(114)</i>               |
| TAC<br>30-1"      | 30,000<br><i>27,000</i>  | 1.0<br><i>(.028)</i>                   | 5<br><i>(0.32)</i>                                       | 14<br><i>(0.88)</i>       | 19<br><i>(1.20)</i> | 2.0<br><i>(0.13)</i>                    | 15 (6.8)<br><i>10 (4.5)</i>  | 9 x 48<br><i>(229 x 1219)</i>                | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 59<br><i>(1499)</i>                      | 25<br><i>(635)</i> | 62<br><i>(1575)</i> | 250<br><i>(114)</i>               |
| TAC<br>40-3/4"    | 40,000<br><i>36,000</i>  | 1.33<br><i>(.038)</i>                  | 6.5<br><i>(0.41)</i>                                     | 13<br><i>(0.82)</i>       | 18<br><i>(1.14)</i> | 2.4<br><i>(0.15)</i>                    | 20 (9.1)<br><i>13.3 (6.0)</i>  | 10 x 54<br><i>(254 x 1372)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 65<br><i>(1651)</i>                      | 25<br><i>(635)</i> | 64<br><i>(1626)</i> | 290<br><i>(132)</i>               |
| TAC<br>40-1"      | 40,000<br><i>36,000</i>  | 1.33<br><i>(.038)</i>                  | 6.5<br><i>(0.41)</i>                                     | 15<br><i>(0.95)</i>       | 21<br><i>(1.32)</i> | 2.4<br><i>(0.15)</i>                    | 20 (9.1)<br><i>13.3 (6.0)</i>  | 10 x 54<br><i>(254 x 1372)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 65<br><i>(1651)</i>                      | 25<br><i>(635)</i> | 64<br><i>(1626)</i> | 290<br><i>(132)</i>               |
| TAC<br>50-3/4"    | 50,000<br><i>45,000</i>  | 1.66<br><i>(.047)</i>                  | 8<br><i>(0.50)</i>                                       | 15<br><i>(0.95)</i>       | 21<br><i>(1.32)</i> | 4<br><i>(0.25)</i>                      | 25 (11.3)<br><i>16.6 (7.5)</i>   | 12 x 52<br><i>(305 x 1321)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 63<br><i>(1600)</i>                      | 25<br><i>(635)</i> | 68<br><i>(1727)</i> | 355<br><i>(161)</i>               |
| TAC<br>50-1"      | 50,000<br><i>45,000</i>  | 1.66<br><i>(.047)</i>                  | 8<br><i>(0.50)</i>                                       | 17<br><i>(1.07)</i>       | 23<br><i>(1.45)</i> | 4<br><i>(0.25)</i>                      | 25 (11.3)<br><i>16.6 (7.5)</i>   | 12 x 52<br><i>(305 x 1321)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 63<br><i>(1600)</i>                      | 25<br><i>(635)</i> | 68<br><i>(1727)</i> | 355<br><i>(161)</i>               |
| TAC<br>60-3/4"    | 60,000<br><i>54,000</i>  | 2<br><i>(.057)</i>                     | 10<br><i>(0.63)</i>                                      | 16<br><i>(1.01)</i>       | 22<br><i>(1.39)</i> | 5<br><i>(0.32)</i>                      | 30 (13.6)<br><i>20 (9.1)</i>   | 14 x 50<br><i>(356 x 1270)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 61<br><i>(1549)</i>                      | 25<br><i>(635)</i> | 72<br><i>(1829)</i> | 430<br><i>(195)</i>               |
| TAC<br>60-1"      | 60,000<br><i>54,000</i>  | 2<br><i>(.057)</i>                     | 10<br><i>(0.63)</i>                                      | 18<br><i>(1.14)</i>       | 25<br><i>(1.58)</i> | 5<br><i>(0.32)</i>                      | 30 (13.6)<br><i>20 (9.1)</i>   | 14 x 50<br><i>(356 x 1270)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 61<br><i>(1549)</i>                      | 25<br><i>(635)</i> | 72<br><i>(1829)</i> | 430<br><i>(195)</i>               |
| TAC<br>60-1-1/2"  | 60,000<br><i>54,000</i>  | 2<br><i>(.057)</i>                     | 10<br><i>(0.63)</i>                                      | 33<br><i>(2.08)</i>       | 45<br><i>(2.84)</i> | 5<br><i>(0.32)</i>                      | 30 (13.6)<br><i>20 (9.1)</i>   | 14 x 50<br><i>(356 x 1270)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 19 x 34<br><i>(483 x 864)</i>                    | 62<br><i>(1575)</i>                      | 30<br><i>(762)</i> | 69<br><i>(1753)</i> | 510<br><i>(232)</i>               |
| TAC<br>90-3/4"    | 90,000<br><i>81,000</i>  | 3<br><i>(.085)</i>                     | 15<br><i>(0.95)</i>                                      | 15<br><i>(0.95)</i>       | 21<br><i>(1.32)</i> | 5<br><i>(0.32)</i>                      | 45 (20.5)<br><i>30 (13.6)</i>  | 14 x 65<br><i>(356 x 1651)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 24 x 50<br><i>(610 x 1270)</i>                   | 76<br><i>(1930)</i>                      | 25<br><i>(635)</i> | 72<br><i>(1829)</i> | 540<br><i>(245)</i>               |
| TAC<br>90-1"      | 90,000<br><i>81,000</i>  | 3<br><i>(.085)</i>                     | 15<br><i>(0.95)</i>                                      | 17<br><i>(1.07)</i>       | 23<br><i>(1.45)</i> | 5<br><i>(0.32)</i>                      | 45 (20.5)<br><i>30 (13.6)</i>  | 14 x 65<br><i>(356 x 1651)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 24 x 50<br><i>(610 x 1270)</i>                   | 76<br><i>(1930)</i>                      | 25<br><i>(635)</i> | 72<br><i>(1829)</i> | 540<br><i>(245)</i>               |
| TAC<br>90-1-1/2"  | 90,000<br><i>81,000</i>  | 3<br><i>(.085)</i>                     | 15<br><i>(0.95)</i>                                      | 29<br><i>(1.83)</i>       | 41<br><i>(1.90)</i> | 5<br><i>(0.32)</i>                      | 45 (20.5)<br><i>30 (13.6)</i>  | 14 x 65<br><i>(356 x 1651)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 24 x 50<br><i>(610 x 1270)</i>                   | 77<br><i>(1956)</i>                      | 30<br><i>(762)</i> | 69<br><i>(1753)</i> | 610<br><i>(277)</i>               |
| TAC<br>120-1"     | 120,000<br><i>108,000</i>  | 4<br><i>(.112)</i>                     | 18<br><i>(1.14)</i>                                      | 18<br><i>(1.14)</i>       | 24<br><i>(1.51)</i> | 7<br><i>(0.44)</i>                      | 60 (27.3)<br><i>40 (18.2)</i>  | 16 x 65<br><i>(406 x 1651)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 24 x 50<br><i>(610 x 1270)</i>                   | 77<br><i>(1956)</i>                      | 30<br><i>(762)</i> | 73<br><i>(1854)</i> | 680<br><i>(309)</i>               |
| TAC<br>120-1-1/2" | 120,000<br><i>108,000</i>  | 4<br><i>(.112)</i>                     | 20<br><i>(1.26)</i>                                      | 32<br><i>(2.02)</i>       | 44<br><i>(2.78)</i> | 7<br><i>(0.44)</i>                      | 60 (27.3)<br><i>40 (18.2)</i>  | 16 x 65<br><i>(406 x 1651)</i>               | 21 x 36<br><i>(533 x 914)</i>                       | 24 x 50<br><i>(610 x 1270)</i>                   | 77<br><i>(1956)</i>                      | 30<br><i>(762)</i> | 73<br><i>(1854)</i> | 750<br><i>(341)</i>               |

\* Resin Volume is per tank, system volume is twice the individual tank volume.

• Factory settings shown in italics.

• Superior Water Conditioning reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change