

# COMMERCIAL / INDUSTRIAL WATER SOFTENERS



When performance & value matters.



# CONTROL VALVES



## SPECIFICATIONS

### EWS1

### EWS1.5

### EWS2QC

|                                |  |   |  |
|--------------------------------|--|---|--|
| <b>Service @ 15 psi drop</b>   | 27 gpm (includes meter & bypass)                                 | 70 gpm  | 125 gpm  |
| <b>Backwash @ 25 psi drop</b>  | 27 gpm (includes bypass)   | 52 gpm  | 85 gpm   |
| <b>TANK APPLICATIONS:</b>      |  |   |  |
| <b>Softener</b>                | 6" - 21" diameter  | 12" - 30" diameter  | 12" - 48" diameter   |
| <b>Filter</b>                  | 6" - 21" diameter  | 12" - 30" diameter  | 12" - 36" diameter   |
| <b>Inlet/Outlet</b>            | 1" - 1.25" NPT   | 1.5" Female NPT   | 2" Female NPT  |
| <b>Fitting Connections</b>     | 3/4" - 1.5" Sweat<br>3/4" - 1.5" Solvent<br>3/4" - 1" SharkBite® |   |  |
| <b>Valve Material</b>          | Noryl  | Lead Free Brass   | Lead Free Brass  |
| <b>Cycles</b>                  | Up to 6  | Up to 6   | Up to 6  |
| <b>Regeneration</b>            | Downflow/Upflow  | Downflow/Upflow   | Downflow/Upflow  |
| <b>Operating Pressures</b>     | 20 - 125 psi   | 20 - 125 psi  | 20 - 125 psi   |
| <b>Operating Temperatures</b>  | 40° - 110° F   | 40° - 110° F  | 40° - 110° F   |
| <b>METER:</b>                  |  |   |  |
| <b>Flow Rate Range</b>         | 0.25 - 27 gpm  | 0.5 - 75 gpm  | 1.5 - 150 gpm  |
| <b>Volume Range (gallons)</b>  | 20 - 1,500,000 gallons   | 20 - 1,500,000 gallons  | 20 - 1,500,000 gallons   |
| <b>Totalizer</b>               | Yes  | Yes   | Yes  |
| <b>Distributor Pilot</b>       | 1.050" O.D. Pipe<br>3/4" NPS                                     | 1.90" O.D. Pipe<br>1.5" NPS   | 2.375" O.D. Pipe<br>2" NPS   |
| <b>Drain Line Connection</b>   | 3/4" Male NPT Standard<br>1" Male NPT Optional                   | 1.25" Female NPT with<br>3/4" Male NPT Standard<br>1" Male NPT Optional | 1.5" Female NPT  |
| <b>Brine Line Connection</b>   | 3/8" or 1/2" O.D.<br>Poly Tube Compression                       | 3/4" Female NPT<br>1/2" O.D. Poly Tube Compression                      | 1" Male NPT elbow<br>3/4" x 1" Solvent elbow<br>1/2" O.D. Poly Tube<br>Compression |
| <b>Mounting Base Options</b>   | 2 1/2" - 8 NPSM  | 4" - 8 UN   | Quick Disconnect<br>4" - 8 UN<br>6" Flange<br>Side Mount                           |
| <b>Height From Top of Tank</b> | 7 3/8"   | 9.5"  | with 4" - 8 UN QC Base<br>is 11.2"<br>with 6" Flange QC Base<br>is 11.3"           |
| <b>Shipping Weight</b>         | 4.5 lbs.   | 21 lbs.   | 29 lbs.  |
| <b>ELECTRICAL:</b>             |  |   |  |
| <b>Supply Voltage</b>          | 120V   | 120V  | 120V   |
| <b>Supply Frequency</b>        | 60 Hz  | 60 Hz   | 60 Hz  |
| <b>Output Voltage</b>          | 12V AC   | 12V AC  | 12V AC   |
| <b>Output Current</b>          | 500 mA   | 500 mA  | 500 mA   |

# CONTROL VALVES



## SPECIFICATIONS

### EWS2H

### EWS3

|  |  |  |
|--|--|--|
| <b>Service @ 15 psi drop</b><br><b>Backwash @ 25 psi drop</b>  | 125 gpm (includes meter)<br>125 gpm                                | 250 gpm<br>220 gpm                           |
| <b>Tank Application: Softener</b><br><b>Tank Application: Filter</b>   | 18" - 63" diameter<br>18" - 48" diameter                           | 18" - 63" diameter (2)<br>18" - 63" diameter |
| <b>Inlet/Outlet</b><br><b>Fitting Connections</b>  | 2" Female NPT / 3" Female NPT<br>2.5" Groove Lock                  | 3" Female NPT                                |
| <b>Valve Material</b><br><b>Cycles</b><br><b>Regeneration</b>  | Lead Free Brass<br>Up to 9<br>Downflow                             | Lead Free Brass<br>Up to 9<br>Downflow       |
| <b>Operating Pressures</b><br><b>Operating Temperatures</b>  | 20 - 125 psi<br>40° - 110° F                                       | 20 - 125 psi<br>40° - 110° F                 |
| <b>METER:</b><br><b>Flow Rate Range</b><br><b>Volume Range (gallons)</b><br><b>Totalizer</b>                             | 1.5 - 125 gpm<br>10 - 999,000 gallons<br>Yes                       | 3.5 - 350 gpm<br>10 - 999,000 gallons<br>Yes |
| <b>Distributor Pilot</b>   | 2.375" O.D. Pipe<br>2" NPS   | 3.5" O.D. Pipe<br>3" NPS                     |
| <b>Drain Line Connection</b>   | 2" Female NPT /<br>2.5" Groove Lock                                | 3" Female NPT                                |
| <b>Brine Line Connection</b>   | 1" Male NPT elbow<br>3/4" x 1" Solvent elbow                       | 1" Male NPT elbow<br>3/4" x 1" Solvent elbow |
| <b>Mounting Base Options</b>   | Quick Disconnect<br>4" - 8 UN<br>6" Flange<br>Side Mount           | Quick Disconnect<br>6" Flange<br>Side Mount  |
| <b>Height From Top of Tank</b>   | with 4" - 8 UN QC Base is 11.5"<br>with 6" Flange QC Base is 11.6" | with 6" Flange QC Base is 12.5"              |
| <b>Shipping Weight</b>   | 50 lbs.  | 57 lbs. (no meter)                           |
| <b>ELECTRICAL:</b><br><b>Supply Voltage</b><br><b>Supply Frequency</b><br><b>Output Voltage</b><br><b>Output Current</b> | 120V AC<br>60 Hz<br>20V AC<br>750 mA                               | 120V AC<br>60 Hz<br>20V AC<br>750 mA         |

# COMMERCIAL / INDUSTRIAL WATER SOFTENER COMPONENTS



## MOTORIZED ALTERNATING VALVE FEATURES (MAV)

- Engineered for duplex alternating system
- 1-1/4" to 2" Motorized Alternating Valves
- Full porting with minimal pressure loss
- Provides for no raw water bypass during regeneration
- Low voltage drive assy controlled by valve circuit board
- Operating pressures 20psi-125psi
- Operating temperatures 40° F - 110° F
- Patent seal spacer stack assy
- Hydraulically balanced piston valve
- Proven and reliable Excalibur DC drive assy



## NO HARD WATER BYPASS (NHWB)

- Engineered for duplex alternating with progressive flow & system controller applications
- 1" to 3" No Hard Water Bypass Valves
- 316 stainless & composite materials of construction
- Designed for use in multiple tank configurations
- Proven and reliable Excalibur DC drive assy
- Hydraulically balanced piston valve
- Patent seal spacer stack assy
- Operating pressures 20psi-125psi
- Operating temperatures 40° F - 110° F
- Low voltage drive assy controlled by valve circuit board
- Full porting with minimal pressure loss



## EXCALIBUR SYSTEM CONTROLLER

- Excalibur System Controller may operate 2-6 vessels
- 1" to 2" Control Valve Engineered Systems
- System diagnostic & programming information download
- Two fused single pole double throw (SPDT) relay outputs
- Front panel displays for time of day, day of week, days until next regeneration, current system flow rate & total system volume utilized
- System regeneration types progressive flow, alternator, series, and random options
- Solid state processor friendly front panel programming
- Front panel LED status indicators for online, standby, and regeneration
- Single demand based output meter
- Coin cell lithium battery for backup time of day



## MINERAL TANKS

- Excalibur mineral tanks are made of high pressure composite materials - LLDPE liner with FRP filament winding outer shell
- Flanged tanks manufactured with continuous seamless inner liner shell with a solid anodize aluminum cast flange
- This design provides excellent strength, durability and leak free service
- Maximum operating pressure 150psi
- Maximum operating temperature 120° F
- Mineral tanks are NSF 44 & PED certified



## ASSEMBLED BRINE TANKS

- Excalibur brine tanks are rotationally molded of a high density polyethylene for exceptional stress-crack resistant properties increased durability
- Injection molded plastic HDPE grids available for dry salt storage applications
- Brine float to eliminate brine tank overflowing
- Safety float brine valve delivers water demand for high flow brining application and refill
- Float eliminates pre-checking during brine refill when air is in the brine line could cause excessive flow rates
- Brine float is enclosed inside a brine well with cap and secured with a two piece overflow set
- Air check valve to initiate slow rinse cycle after brining complete



## RESIN

- Excalibur C-800 water softening resin has a minimum 8% cross link gel type sodium form high capacity polystyrene ion exchange resin
- Performance maximum capacity of 30,000 grains per cubic foot when regenerated with 15lbs of salt
- Resin is solid containing no plates shells agglomerates or other shapes for high efficiency maximum capacity performance
- Excalibur premium water softening resins are manufactured in Canada
- Tested & certified to NSF ANSI 44 and 61 with WQA Gold Seal



# COMMERCIAL / INDUSTRIAL WATER SOFTENER COMPONENTS

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## GRAVEL SUPPORT BED

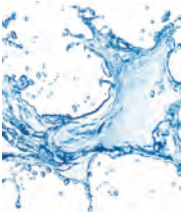
- Excalibur uncrushed gravel has a highly spherical shape that promotes good flow and even distribution support bed
- Gravel will maintain the quality of the softened water

- Multi depth layered gravel support bed for maximum flow rates with minimum pressure drop



## WATER DISTRIBUTION

- Excalibur high impact FDA approved hub and lateral high flow distributors are utilized to evenly collect and distribute the flow of water over the entire resin bed.



## PROGRESSIVE FLOW

- Progressive flow provides minimum to maximum peak flow rates utilizing one or all of the vessels in the design configuration to satisfy current demand. This system will utilize and operate outlet isolation valves with a predetermined flow rate set point to bring online additional units to meet peak flow rate requirements.

This system configuration determines the need to regenerate based on a unit reaching zero capacity or day override.

# COMMERCIAL / INDUSTRIAL WATER SOFTENER APPLICATIONS

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## Commercial Applications

Condominium  
Apartment buildings  
Assisted Living Facilities  
Motels  
Hotels  
Hospitals

Office Buildings  
Agriculture  
Car Wash  
Trailer Parks  
Schools  
Laundry Mats

Gas Stations  
Restaurants  
Health Clubs  
Grocery Stores

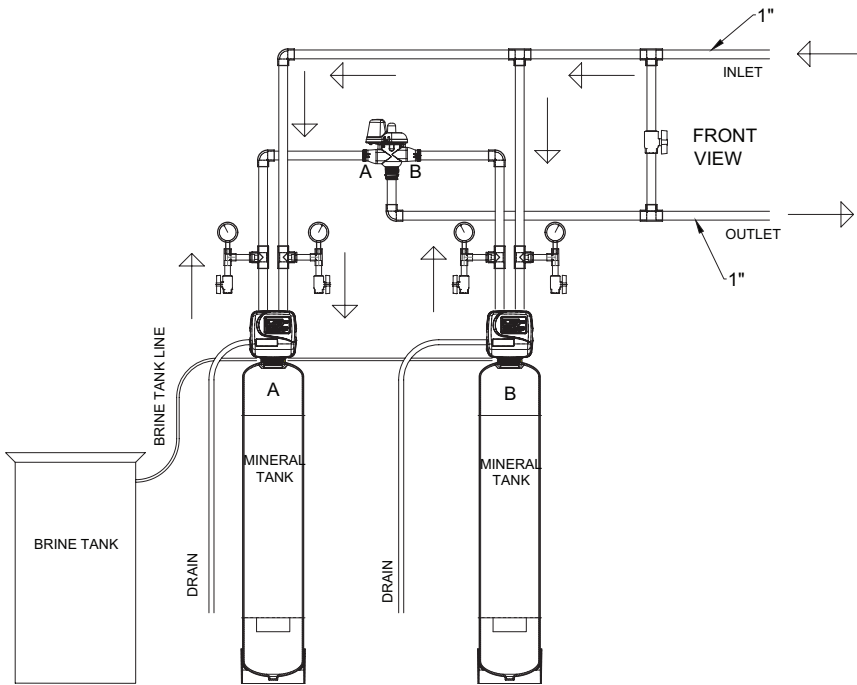
## Industrial Applications

Boiler Pre Treatment  
Pharmaceutical  
Paint Booths  
Process Water  
Steel Industries

Aerospace  
Food Processing  
Bottling Plants  
Cooling Tower  
Petro Chemical

Electronics  
Pulp & Paper  
Power Generation  
Fisheries

# EXCALIBUR 1" SIMPLEX & DUPLEX SOFTENER SPECIFICATIONS



## Simplex & Duplex Fully Automatic Electronic Demand Commercial Water Softeners

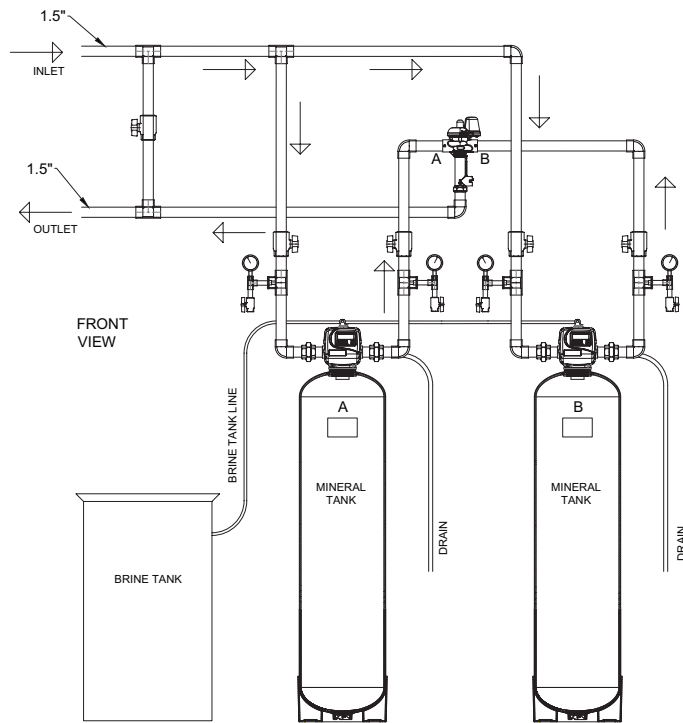
- Flow Rates up to 27 USGPM
- Internal Electronic Flow Meter range 0.25-27 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex softeners utilize MAV controls to provide regeneration

## WATER SOFTENER SPECIFICATIONS

| MODEL      | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          | APPROX. SPACE REQUIRED (in) |       |        | Shipping Weight<br>lbs |
|------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|-----------------------------|-------|--------|------------------------|
|            |                                   |                                   |                             | 15PSI           | 25PSI | CRITICAL | LENGTH                      | WIDTH | HEIGHT |                        |
| EWS S130   | 27,000                            | 30,000                            | 30,000                      | 10              | 15    | 5        | 30                          | 20    | 57     | 90                     |
| EWS SD130  | 27,000                            | 30,000                            | 60,000                      | 10              | 15    | 5        | 40                          | 20    | 57     | 180                    |
| EWS S145   | 40,500                            | 45,000                            | 45,000                      | 12              | 17    | 7.5      | 31                          | 20    | 63     | 115                    |
| EWS SD145  | 40,500                            | 45,000                            | 90,000                      | 12              | 17    | 7.5      | 42                          | 20    | 63     | 230                    |
| EWS S160   | 54,000                            | 60,000                            | 60,000                      | 14              | 19    | 10       | 34                          | 20    | 62     | 150                    |
| EWS SD160  | 54,000                            | 60,000                            | 120,000                     | 14              | 19    | 10       | 46                          | 20    | 62     | 300                    |
| EWS S175   | 67,500                            | 75,000                            | 75,000                      | 16              | 21    | 12.5     | 36                          | 20    | 64     | 250                    |
| EWS SD175  | 67,500                            | 75,000                            | 150,000                     | 16              | 21    | 12.5     | 50                          | 20    | 64     | 500                    |
| EWS S190   | 81,000                            | 90,000                            | 90,000                      | 17              | 22    | 15       | 45                          | 24    | 75     | 350                    |
| EWS SD190  | 81,000                            | 90,000                            | 180,000                     | 17              | 22    | 15       | 58                          | 25    | 75     | 700                    |
| EWS S1120  | 108,000                           | 120,000                           | 120,000                     | 19              | 24    | 20       | 48                          | 25    | 75     | 450                    |
| EWS SD1120 | 108,000                           | 120,000                           | 240,000                     | 19              | 24    | 20       | 65                          | 25    | 75     | 900                    |
| EWS S1150  | 135,000                           | 150,000                           | 150,000                     | 22              | 26    | 25       | 60                          | 30    | 75     | 600                    |
| EWS SD1150 | 135,000                           | 150,000                           | 300,000                     | 22              | 26    | 25       | 75                          | 30    | 75     | 1,200                  |
| EWS S1180  | 162,000                           | 180,000                           | 180,000                     | 21              | 25    | 25       | 60                          | 30    | 75     | 650                    |
| EWS SD1180 | 162,000                           | 180,000                           | 360,000                     | 21              | 25    | 25       | 75                          | 30    | 75     | 1,300                  |
| EWS S1210  | 189,000                           | 210,000                           | 210,000                     | 24              | 27    | 25       | 60                          | 30    | 76     | 750                    |
| EWS SD1210 | 189,000                           | 210,000                           | 420,000                     | 24              | 27    | 25       | 76                          | 30    | 76     | 1,500                  |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 1.5" SIMPLEX & DUPLEX SOFTENER SPECIFICATIONS



## Simplex & Duplex Fully Automatic Electronic Demand Commercial Water Softeners

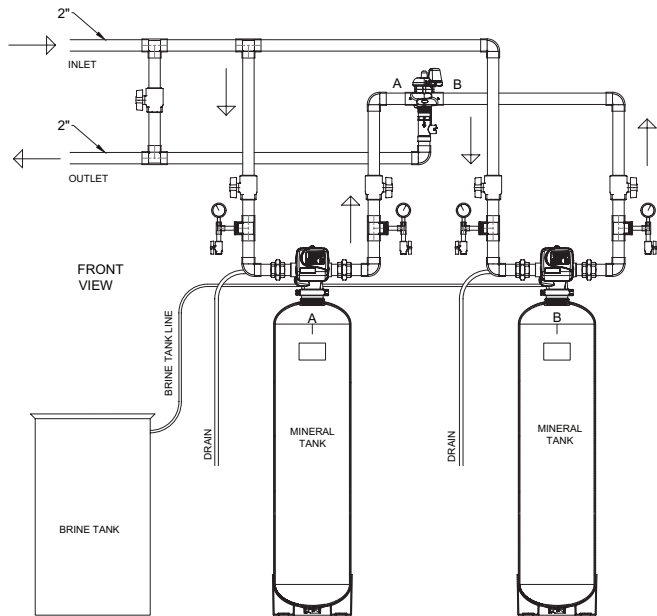
- Flow Rates up to 78 USGPM
- External Electronic Flow Meter range 0.5-75 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex softeners utilize MAV controls to provide regeneration

## WATER SOFTENER SPECIFICATIONS

| MODEL              | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          | APPROX. SPACE REQUIRED (in) |       |        | Shipping Weight<br>lbs |
|--------------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|-----------------------------|-------|--------|------------------------|
|                    |                                   |                                   |                             | 15PSI           | 25PSI | CRITICAL | LENGTH                      | WIDTH | HEIGHT |                        |
| <b>EWS S15120</b>  | 108,000                           | 120,000                           | 120,000                     | 40              | 52    | 20       | 46                          | 24    | 75     | 450                    |
| <b>EWS SD15120</b> | 108,000                           | 120,000                           | 240,000                     | 40              | 52    | 20       | 68                          | 24    | 75     | 900                    |
| <b>EWS S15150</b>  | 135,000                           | 150,000                           | 150,000                     | 44              | 57    | 25       | 46                          | 24    | 74     | 600                    |
| <b>EWS SD15150</b> | 135,000                           | 150,000                           | 300,000                     | 44              | 57    | 25       | 72                          | 24    | 74     | 1,200                  |
| <b>EWS S15180</b>  | 162,000                           | 180,000                           | 180,000                     | 43              | 56    | 30       | 46                          | 24    | 74     | 650                    |
| <b>EWS SD15180</b> | 162,000                           | 180,000                           | 360,000                     | 43              | 56    | 30       | 72                          | 24    | 74     | 1,300                  |
| <b>EWS S15210</b>  | 189,000                           | 210,000                           | 210,000                     | 50              | 64    | 35       | 49                          | 24    | 74     | 700                    |
| <b>EWS SD15210</b> | 189,000                           | 210,000                           | 420,000                     | 50              | 64    | 35       | 82                          | 24    | 74     | 1,400                  |
| <b>EWS S15240</b>  | 216,000                           | 240,000                           | 240,000                     | 55              | 71    | 40       | 58                          | 30    | 85     | 900                    |
| <b>EWS SD15240</b> | 216,000                           | 240,000                           | 480,000                     | 55              | 71    | 40       | 96                          | 30    | 85     | 1,800                  |
| <b>EWS S15300</b>  | 270,000                           | 300,000                           | 300,000                     | 53              | 68    | 50       | 58                          | 30    | 85     | 975                    |
| <b>EWS SD15300</b> | 270,000                           | 300,000                           | 600,000                     | 53              | 68    | 50       | 96                          | 30    | 85     | 1,950                  |
| <b>EWS S15450</b>  | 405,000                           | 450,000                           | 450,000                     | 60              | 78    | 70       | 73                          | 39    | 95     | 1,475                  |
| <b>EWS SD15450</b> | 405,000                           | 450,000                           | 900,000                     | 60              | 78    | 70       | 96                          | 39    | 95     | 2,950                  |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 2"QC SIMPLEX & DUPLEX SOFTENER SPECIFICATIONS



## Simplex & Duplex Fully Automatic Electronic Demand Commercial Water Softeners

- Flow Rates up to 136 USGPM
- External Electronic Flow Meter range 1.5-150 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex softeners utilize MAV controls to provide regeneration

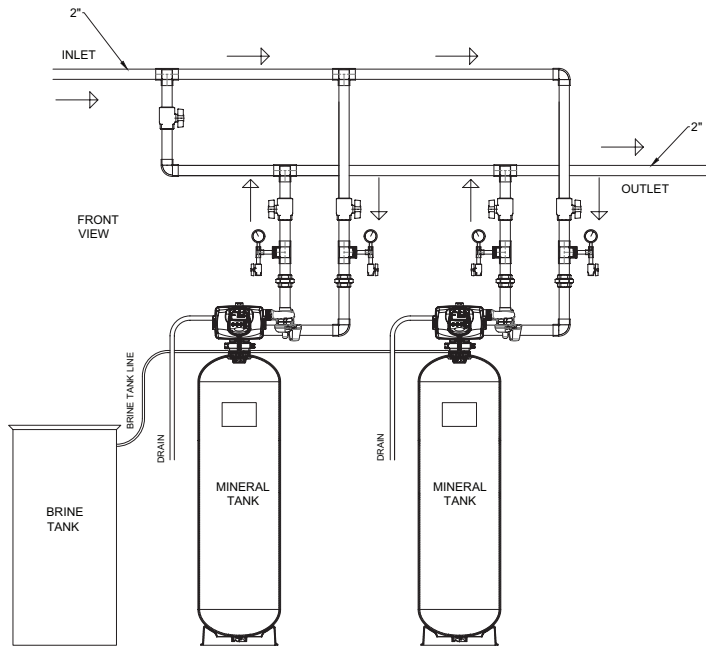
## WATER SOFTENER SPECIFICATIONS

| MODEL          | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          | APPROX. SPACE REQUIRED (in) |       |        | Shipping Weight<br>lbs |
|----------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|-----------------------------|-------|--------|------------------------|
|                |                                   |                                   |                             | 15PSI           | 25PSI | CRITICAL | LENGTH                      | WIDTH | HEIGHT |                        |
| EWS S2MQC120   | 108,000                           | 120,000                           | 120,000                     | 47              | 60    | 20       | 45                          | 24    | 75     | 500                    |
| EWS SD2MQC120  | 108,000                           | 120,000                           | 240,000                     | 47              | 60    | 20       | 68                          | 24    | 75     | 1,000                  |
| EWS S2MQC150   | 135,000                           | 150,000                           | 150,000                     | 54              | 70    | 25       | 46                          | 24    | 74     | 650                    |
| EWS SD2MQC150  | 135,000                           | 150,000                           | 300,000                     | 54              | 70    | 25       | 72                          | 24    | 74     | 1,300                  |
| EWS S2MQC180   | 162,000                           | 180,000                           | 180,000                     | 52              | 67    | 30       | 46                          | 24    | 74     | 700                    |
| EWS SD2MQC180  | 162,000                           | 180,000                           | 360,000                     | 52              | 67    | 30       | 72                          | 24    | 74     | 1,400                  |
| EWS S2MQC210   | 189,000                           | 210,000                           | 210,000                     | 68              | 88    | 35       | 49                          | 24    | 74     | 750                    |
| EWS SD2MQC210  | 189,000                           | 210,000                           | 420,000                     | 68              | 88    | 35       | 82                          | 24    | 74     | 1,500                  |
| EWS S2MQC240   | 216,000                           | 240,000                           | 240,000                     | 77              | 100   | 40       | 58                          | 30    | 85     | 950                    |
| EWS SD2MQC240  | 216,000                           | 240,000                           | 480,000                     | 77              | 100   | 40       | 96                          | 30    | 85     | 1,900                  |
| EWS S2MQC300   | 270,000                           | 300,000                           | 300,000                     | 75              | 97    | 50       | 58                          | 30    | 85     | 1,025                  |
| EWS SD2MQC300  | 270,000                           | 300,000                           | 600,000                     | 75              | 97    | 50       | 96                          | 30    | 85     | 2,050                  |
| EWS S2MQC450   | 405,000                           | 450,000                           | 450,000                     | 88              | 113   | 75       | 73                          | 39    | 95     | 1,500                  |
| EWS SD2MQC450  | 405,000                           | 450,000                           | 900,000                     | 88              | 113   | 75       | 107                         | 39    | 95     | 3,000                  |
| EWS S2MQC600   | 540,000                           | 600,000                           | 600,000                     | 97              | 126   | 100      | 92                          | 50    | 109    | 2,000                  |
| EWS SD2MQC600  | 540,000                           | 600,000                           | 1,200,000                   | 97              | 126   | 100      | 130                         | 50    | 109    | 4,000                  |
| EWS S2MQC750   | 675,000                           | 750,000                           | 750,000                     | 106             | 137   | 125      | 96                          | 50    | 109    | 2,750                  |
| EWS SD2MQC750  | 675,000                           | 750,000                           | 1,500,000                   | 106             | 137   | 125      | 140                         | 50    | 109    | 5,500                  |
| EWS S2MQC900   | 810,000                           | 900,000                           | 900,000                     | 103             | 134   | 125      | 96                          | 50    | 109    | 3,000                  |
| EWS SD2MQC900  | 810,000                           | 900,000                           | 1,800,000                   | 103             | 134   | 125      | 142                         | 50    | 109    | 6,000                  |
| EWS S2MQC1200  | 1,080,000                         | 1,200,000                         | 1,200,000                   | 105             | 136   | 125      | 102                         | 50    | 109    | 3,900                  |
| EWS SD2MQC1200 | 1,080,000                         | 1,200,000                         | 2,400,000                   | 105             | 136   | 125      | 154                         | 50    | 109    | 7,800                  |

• Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>



# EXCALIBUR 2H" SIMPLEX & DUPLEX PROGRESSIVE SOFTENER SPECIFICATIONS



## Simplex & Duplex Fully Automatic Electronic Demand Commercial Water Softeners

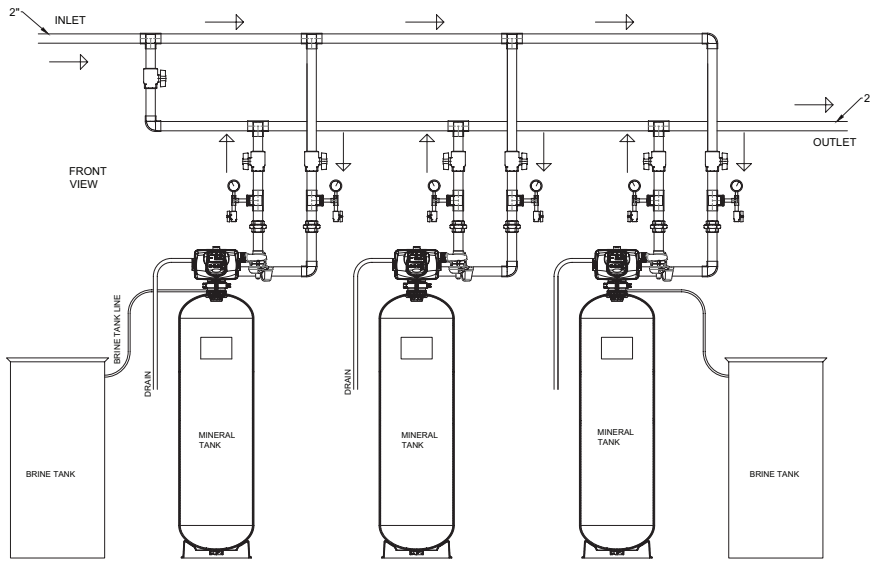
- Flow Rates up to 136 USGPM
- Internal Electronic Flow Meter range 1.5-125 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex softeners utilize MAV controls to provide regeneration

## WATER SOFTENER SPECIFICATIONS

| MODEL        | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max<br>System<br>Capacity<br>(gr) | FLOW RATE (GPM) |       |          |      | APPROX. SPACE REQUIRED (in) |       |        | Shipping<br>Weight<br>lbs |
|--------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------|-------|----------|------|-----------------------------|-------|--------|---------------------------|
|              |                                   |                                   |                                   | 15PSI           | 25PSI | System   |      | LENGTH                      | WIDTH | HEIGHT |                           |
|              |                                   |                                   |                                   |                 |       | Critical | Peak |                             |       |        |                           |
| EWS S2H150   | 135,000                           | 150,000                           | 150,000                           | 54              | 70    | 25       | 40   | 46                          | 24    | 82     | 560                       |
| EWS SD2H150  | 135,000                           | 150,000                           | 300,000                           | 54              | 70    | 50       | 80   | 72                          | 24    | 82     | 1,120                     |
| EWS S2H180   | 162,000                           | 180,000                           | 180,000                           | 52              | 67    | 30       | 48   | 46                          | 24    | 82     | 610                       |
| EWS SD2H180  | 162,000                           | 180,000                           | 360,000                           | 52              | 67    | 60       | 96   | 72                          | 24    | 82     | 1,220                     |
| EWS S2H210   | 189,000                           | 210,000                           | 210,000                           | 68              | 88    | 35       | 56   | 49                          | 24    | 85     | 720                       |
| EWS SD2H210  | 189,000                           | 210,000                           | 420,000                           | 68              | 88    | 70       | 112  | 76                          | 24    | 85     | 1,440                     |
| EWS S2H240   | 216,000                           | 240,000                           | 240,000                           | 77              | 100   | 40       | 64   | 58                          | 30    | 89     | 940                       |
| EWS SD2H240  | 216,000                           | 240,000                           | 480,000                           | 77              | 100   | 80       | 128  | 88                          | 30    | 89     | 1,880                     |
| EWS S2H300   | 270,000                           | 300,000                           | 300,000                           | 75              | 97    | 50       | 80   | 58                          | 30    | 89     | 1,040                     |
| EWS SD2H300  | 270,000                           | 300,000                           | 600,000                           | 75              | 97    | 100      | 160  | 88                          | 30    | 89     | 2,080                     |
| EWS S2H450   | 405,000                           | 450,000                           | 450,000                           | 88              | 113   | 75       | 113  | 73                          | 39    | 96     | 1,515                     |
| EWS SD2H450  | 405,000                           | 450,000                           | 900,000                           | 88              | 113   | 150      | 226  | 110                         | 39    | 96     | 3,030                     |
| EWS S2H600   | 540,000                           | 600,000                           | 600,000                           | 97              | 126   | 100      | 125  | 92                          | 50    | 98     | 2,000                     |
| EWS SD2H600  | 540,000                           | 600,000                           | 1,200,000                         | 97              | 126   | 200      | 250  | 134                         | 50    | 98     | 4,000                     |
| EWS S2H750   | 675,000                           | 750,000                           | 750,000                           | 106             | 137   | 125      | 125  | 96                          | 50    | 109    | 2,750                     |
| EWS SD2H750  | 675,000                           | 750,000                           | 1,500,000                         | 106             | 137   | 250      | 250  | 144                         | 50    | 109    | 5,500                     |
| EWS S2H900   | 810,000                           | 900,000                           | 900,000                           | 103             | 134   | 125      | 125  | 96                          | 50    | 109    | 3,000                     |
| EWS SD2H900  | 810,000                           | 900,000                           | 1,800,000                         | 103             | 134   | 250      | 250  | 144                         | 50    | 109    | 6,000                     |
| EWS S2H1200  | 1,080,000                         | 1,200,000                         | 1,200,000                         | 105             | 136   | 125      | 125  | 102                         | 50    | 109    | 3,900                     |
| EWS SD2H1200 | 1,080,000                         | 1,200,000                         | 2,400,000                         | 105             | 136   | 250      | 250  | 158                         | 50    | 109    | 7,800                     |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 2H" TRIPLEX & QUADPLEX PROGRESSIVE SOFTENER SPECIFICATIONS



## Triplex & Quadplex Fully Automatic Electronic Demand Industrial Water Softeners

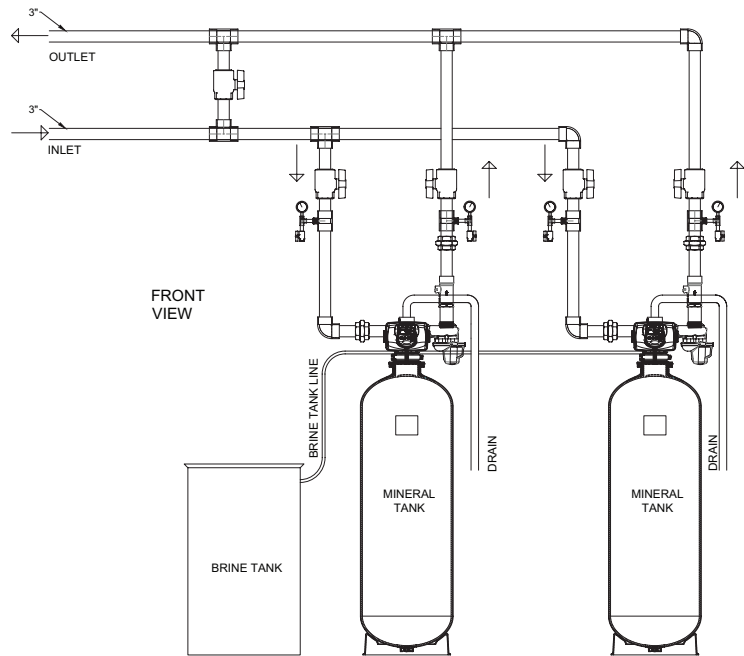
- Flow Rates up to 500 USGPM
- System designs up to 4 vessels
- Internal Electronic Flow Meter
- Fully adjustable 9 cycle valve
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Triplex & Quad softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

## WATER SOFTENER SPECIFICATIONS

| MODEL        | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          |      | APPROX. SPACE REQUIRED (in) |       |        | Shipping<br>Weight<br>lbs |
|--------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|------|-----------------------------|-------|--------|---------------------------|
|              |                                   |                                   |                             | 15PSI           | 25PSI | System   |      | LENGTH                      | WIDTH | HEIGHT |                           |
|              |                                   |                                   |                             |                 |       | Critical | Peak |                             |       |        |                           |
| EWS ST2H150  | 135,000                           | 150,000                           | 450,000                     | 54              | 70    | 75       | 120  | 150                         | 24    | 82     | 1,680                     |
| EWS SQ2H150  | 135,000                           | 150,000                           | 600,000                     | 54              | 70    | 100      | 160  | 200                         | 24    | 82     | 2,240                     |
| EWS ST2H180  | 162,000                           | 180,000                           | 540,000                     | 52              | 67    | 90       | 144  | 150                         | 24    | 82     | 1,830                     |
| EWS SQ2H180  | 162,000                           | 180,000                           | 720,000                     | 52              | 67    | 120      | 192  | 200                         | 24    | 82     | 2,440                     |
| EWS ST2H210  | 189,000                           | 210,000                           | 630,000                     | 68              | 88    | 105      | 168  | 160                         | 24    | 85     | 2,160                     |
| EWS SQ2H210  | 189,000                           | 210,000                           | 840,000                     | 68              | 88    | 140      | 224  | 211                         | 24    | 85     | 2,880                     |
| EWS ST2H240  | 216,000                           | 240,000                           | 720,000                     | 77              | 100   | 120      | 192  | 182                         | 30    | 89     | 2,820                     |
| EWS SQ2H240  | 216,000                           | 240,000                           | 960,000                     | 77              | 100   | 160      | 256  | 246                         | 30    | 89     | 3,760                     |
| EWS ST2H300  | 270,000                           | 300,000                           | 900,000                     | 75              | 97    | 150      | 240  | 182                         | 30    | 89     | 3,120                     |
| EWS SQ2H300  | 270,000                           | 300,000                           | 1,200,000                   | 75              | 97    | 200      | 320  | 246                         | 30    | 89     | 4,160                     |
| EWS ST2H450  | 405,000                           | 450,000                           | 1,350,000                   | 88              | 113   | 225      | 339  | 227                         | 39    | 96     | 4,545                     |
| EWS SQ2H450  | 405,000                           | 450,000                           | 1,800,000                   | 88              | 113   | 300      | 452  | 308                         | 39    | 96     | 6,060                     |
| EWS ST2H600  | 540,000                           | 600,000                           | 1,800,000                   | 97              | 126   | 300      | 375  | 280                         | 50    | 98     | 6,000                     |
| EWS SQ2H600  | 540,000                           | 600,000                           | 2,400,000                   | 97              | 126   | 400      | 500  | 385                         | 50    | 98     | 8,000                     |
| EWS ST2H750  | 675,000                           | 750,000                           | 2,250,000                   | 106             | 137   | 375      | 375  | 296                         | 50    | 109    | 8,250                     |
| EWS SQ2H750  | 675,000                           | 750,000                           | 3,000,000                   | 106             | 137   | 500      | 500  | 400                         | 50    | 109    | 11,000                    |
| EWS ST2H900  | 810,000                           | 900,000                           | 2,700,000                   | 103             | 134   | 375      | 375  | 296                         | 50    | 109    | 9,000                     |
| EWS SQ2H900  | 810,000                           | 900,000                           | 3,600,000                   | 103             | 134   | 500      | 500  | 400                         | 50    | 109    | 12,000                    |
| EWS ST2H1200 | 1,080,000                         | 1,200,000                         | 3,600,000                   | 105             | 136   | 375      | 375  | 318                         | 50    | 109    | 11,700                    |
| EWS SQ2H1200 | 1,080,000                         | 1,200,000                         | 4,800,000                   | 105             | 136   | 500      | 500  | 424                         | 50    | 109    | 15,600                    |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 3" SIMPLEX & DUPLEX PROGRESSIVE SOFTENER SPECIFICATIONS



## Simplex & Duplex Fully Automatic Electronic Demand Industrial Water Softeners

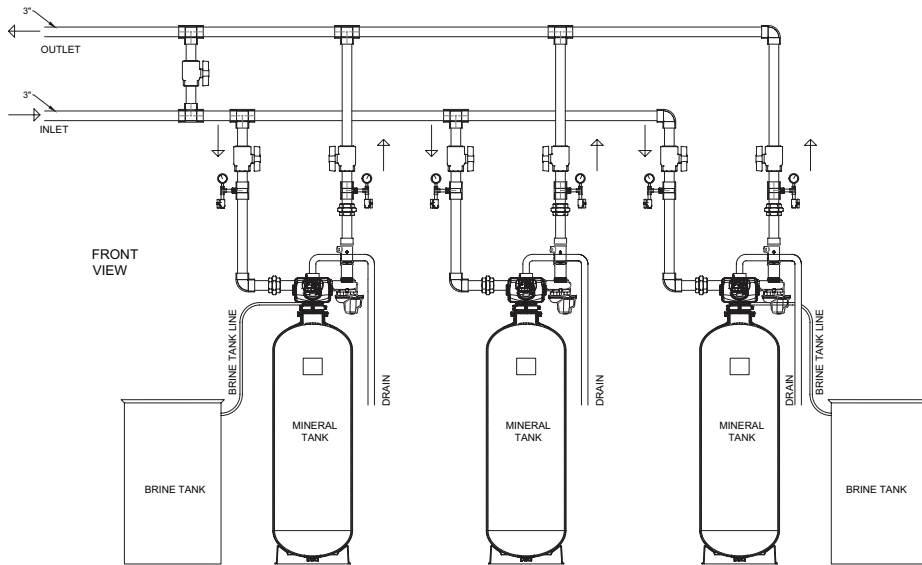
- Flow Rates up to 500 USGPM
- External Electronic Flow Meter range 3.5-350 USGPM
- Fully adjustable 9 cycle valve
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

## WATER SOFTENER SPECIFICATIONS

| MODEL       | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          |      | APPROX. SPACE REQUIRED (in) |       |        | Shipping<br>Weight<br>lbs |
|-------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|------|-----------------------------|-------|--------|---------------------------|
|             |                                   |                                   |                             | 15PSI           | 25PSI | System   |      | LENGTH                      | WIDTH | HEIGHT |                           |
|             |                                   |                                   |                             |                 |       | Critical | Peak |                             |       |        |                           |
| EWS S3300   | 270,000                           | 300,000                           | 300,000                     | 98              | 126   | 50       | 80   | 58                          | 30    | 90     | 1,045                     |
| EWS SD3300  | 270,000                           | 300,000                           | 600,000                     | 98              | 126   | 100      | 160  | 88                          | 30    | 90     | 2,090                     |
| EWS S3450   | 405,000                           | 450,000                           | 450,000                     | 144             | 186   | 75       | 120  | 73                          | 39    | 97     | 1,520                     |
| EWS SD3450  | 405,000                           | 450,000                           | 900,000                     | 144             | 186   | 150      | 240  | 110                         | 39    | 97     | 3,040                     |
| EWS S3600   | 540,000                           | 600,000                           | 600,000                     | 172             | 222   | 100      | 160  | 92                          | 50    | 99     | 2,000                     |
| EWS SD3600  | 540,000                           | 600,000                           | 1,200,000                   | 172             | 222   | 200      | 320  | 134                         | 50    | 99     | 4,000                     |
| EWS S3750   | 675,000                           | 750,000                           | 750,000                     | 190             | 244   | 125      | 200  | 96                          | 50    | 110    | 2,845                     |
| EWS SD3750  | 675,000                           | 750,000                           | 1,500,000                   | 190             | 244   | 250      | 400  | 144                         | 50    | 110    | 5,690                     |
| EWS S3900   | 810,000                           | 900,000                           | 900,000                     | 186             | 240   | 150      | 240  | 96                          | 50    | 110    | 3,100                     |
| EWS SD3900  | 810,000                           | 900,000                           | 1,800,000                   | 186             | 240   | 300      | 480  | 144                         | 50    | 110    | 6,200                     |
| EWS S31200  | 1,080,000                         | 1,200,000                         | 1,200,000                   | 194             | 251   | 200      | 250  | 102                         | 50    | 107    | 3,900                     |
| EWS SD31200 | 1,080,000                         | 1,200,000                         | 2,400,000                   | 194             | 251   | 400      | 500  | 158                         | 50    | 107    | 7,800                     |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 3" TRIPLEX & QUADPLEX PROGRESSIVE SOFTENER SPECIFICATIONS



**Triplex & Quadplex  
Fully Automatic  
Electronic Demand  
Industrial  
Water Softeners**

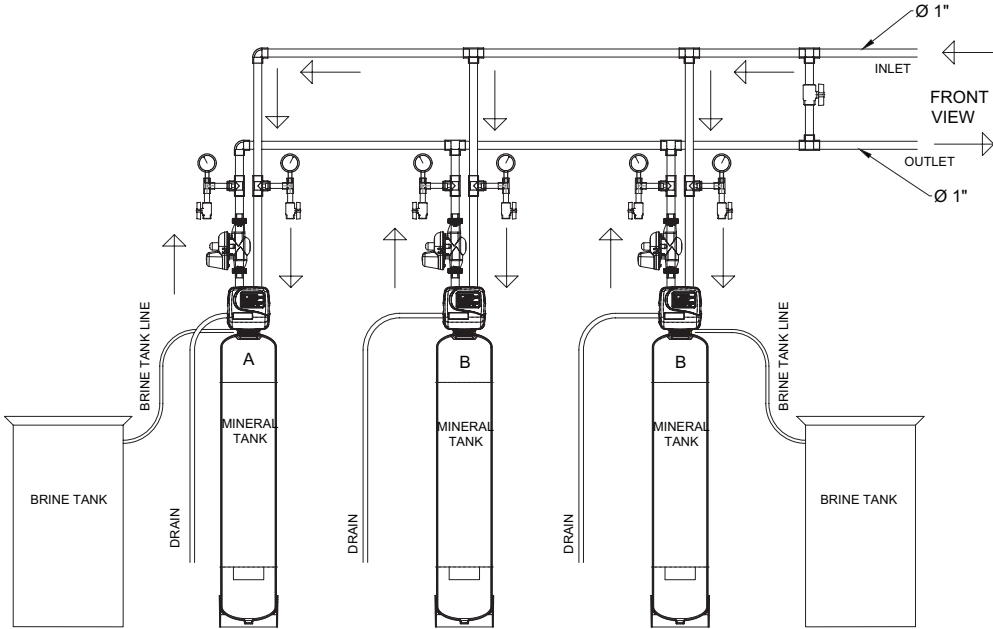
- Flow Rates up to 1000 USGPM
- System designs up to 4 vessels
- External Electronic Flow Meter
- Fully adjustable 9 cycle valve
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Triplex & Quad softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

## WATER SOFTENER SPECIFICATIONS

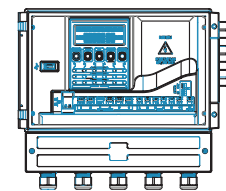
| MODEL              | Capacity<br>10lbs/ft <sup>3</sup> | Capacity<br>15lbs/ft <sup>3</sup> | Max System<br>Capacity (gr) | FLOW RATE (GPM) |       |          |      | APPROX. SPACE REQUIRED (in) |       |        | Shipping<br>Weight<br>lbs |
|--------------------|-----------------------------------|-----------------------------------|-----------------------------|-----------------|-------|----------|------|-----------------------------|-------|--------|---------------------------|
|                    |                                   |                                   |                             | 15PSI           | 25PSI | System   |      | LENGTH                      | WIDTH | HEIGHT |                           |
|                    |                                   |                                   |                             |                 |       | Critical | Peak |                             |       |        |                           |
| <b>EWS ST3300</b>  | 270,000                           | 300,000                           | 900,000                     | 98              | 126   | 150      | 240  | 190                         | 30    | 90     | 3,135                     |
| <b>EWS SQ3300</b>  | 270,000                           | 300,000                           | 1,200,000                   | 98              | 126   | 200      | 320  | 260                         | 30    | 90     | 4,180                     |
| <b>EWS ST3450</b>  | 405,000                           | 450,000                           | 1,350,000                   | 144             | 186   | 225      | 360  | 235                         | 39    | 97     | 4,560                     |
| <b>EWS SQ3450</b>  | 405,000                           | 450,000                           | 1,800,000                   | 144             | 186   | 300      | 480  | 325                         | 39    | 97     | 6,080                     |
| <b>EWS ST3600</b>  | 540,000                           | 600,000                           | 1,800,000                   | 172             | 222   | 300      | 480  | 285                         | 50    | 99     | 6,000                     |
| <b>EWS SQ3600</b>  | 540,000                           | 600,000                           | 2,400,000                   | 172             | 222   | 400      | 640  | 380                         | 50    | 99     | 8,000                     |
| <b>EWS ST3750</b>  | 675,000                           | 750,000                           | 2,250,000                   | 190             | 244   | 375      | 600  | 300                         | 50    | 110    | 8,535                     |
| <b>EWS SQ3750</b>  | 675,000                           | 750,000                           | 3,000,000                   | 190             | 244   | 500      | 800  | 400                         | 50    | 110    | 11,380                    |
| <b>EWS ST3900</b>  | 810,000                           | 900,000                           | 2,700,000                   | 186             | 240   | 450      | 720  | 300                         | 50    | 110    | 9,300                     |
| <b>EWS SQ3900</b>  | 810,000                           | 900,000                           | 3,600,000                   | 186             | 240   | 600      | 960  | 400                         | 50    | 110    | 12,400                    |
| <b>EWS ST31200</b> | 1,080,000                         | 1,200,000                         | 3,600,000                   | 194             | 251   | 600      | 750  | 320                         | 50    | 107    | 11,700                    |
| <b>EWS SQ31200</b> | 1,080,000                         | 1,200,000                         | 4,800,000                   | 194             | 251   | 800      | 1000 | 430                         | 50    | 107    | 15,600                    |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

# EXCALIBUR 1" COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE SOFTENER SPECIFICATIONS



**System Controller  
1" Fully Automatic  
Multi-Tank  
Electronic Demand  
Commercial/Industrial  
Water Softeners**



- Flow Rates up to 162 USGPM
- System designs up to 6 vessels
- Internal Electronic Flow Meters
- Fully adjustable 6 cycle valve
- Eliminates potential channelling for low flow conditions
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- System Controller Softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

## WATER SOFTENER SPECIFICATIONS

| MODEL <sup>1</sup> | Vessel Capacity (gr)  |                       | FLOW RATE (GPM) |                 |                                    |    |     |     |     | APPROX. SPACE REQUIRED (INCHES) |     |     |     |     |       | SHIPPING WEIGHT LBS |        |
|--------------------|-----------------------|-----------------------|-----------------|-----------------|------------------------------------|----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-------|---------------------|--------|
|                    | 10lbs/ft <sup>3</sup> | 15lbs/ft <sup>3</sup> | Min. Flow       | Critical/Vessel | Progressive Peak Flow <sup>2</sup> |    |     |     |     | LENGTH <sup>2</sup>             |     |     |     |     | WIDTH |                     | HEIGHT |
|                    |                       |                       |                 |                 | 2                                  | 3  | 4   | 5   | 6   | 2                               | 3   | 4   | 5   | 6   |       |                     |        |
| <b>EWS SC1N30</b>  | 27,000                | 30,000                | 0.9             | 5               | 16                                 | 24 | 32  | 40  | 48  | 42                              | 100 | 130 | 162 | 195 | 20    | 57                  | 90     |
| <b>EWS SC1N45</b>  | 40,500                | 45,000                | 1.1             | 8               | 24                                 | 36 | 48  | 60  | 72  | 44                              | 102 | 133 | 166 | 200 | 20    | 63                  | 115    |
| <b>EWS SC1N60</b>  | 54,000                | 60,000                | 1.6             | 10              | 32                                 | 48 | 64  | 80  | 96  | 48                              | 114 | 148 | 185 | 222 | 20    | 62                  | 150    |
| <b>EWS SC1N75</b>  | 67,500                | 75,000                | 1.8             | 13              | 40                                 | 60 | 80  | 100 | 120 | 50                              | 118 | 160 | 200 | 240 | 20    | 64                  | 250    |
| <b>EWS SC1N90</b>  | 81,000                | 90,000                | 2.1             | 15              | 44                                 | 66 | 88  | 110 | 132 | 58                              | 149 | 200 | 250 | 300 | 24    | 75                  | 350    |
| <b>EWS SC1N120</b> | 108,000               | 120,000               | 2.8             | 20              | 48                                 | 72 | 96  | 120 | 144 | 65                              | 160 | 216 | 270 | 325 | 25    | 75                  | 450    |
| <b>EWS SC1N150</b> | 135,000               | 150,000               | 3.5             | 25              | 50                                 | 75 | 100 | 125 | 150 | 75                              | 190 | 220 | 280 | 335 | 30    | 75                  | 600    |
| <b>EWS SC1N180</b> | 162,000               | 180,000               | 3.5             | 30              | 52                                 | 78 | 104 | 130 | 156 | 75                              | 190 | 220 | 280 | 335 | 30    | 75                  | 650    |
| <b>EWS SC1N210</b> | 189,000               | 210,000               | 4.8             | 35              | 54                                 | 81 | 108 | 135 | 162 | 76                              | 190 | 230 | 290 | 345 | 30    | 76                  | 750    |

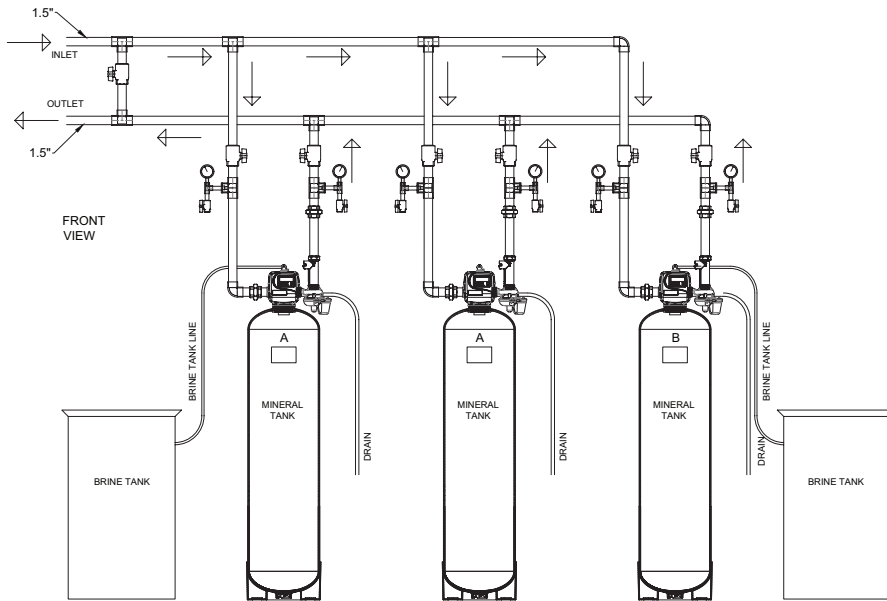
- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

1 = N must be replaced by number of Vessels to order.

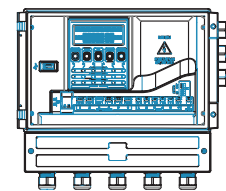
2 = Numbers given below denote the number of vessels.



# EXCALIBUR 1.5" COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE SOFTENER SPECIFICATIONS



**System Controller  
1.5" Fully Automatic  
Multi-Tank  
Electronic Demand  
Commercial/Industrial  
Water Softeners**



- Flow Rates up to 420 USGPM
- System designs up to 6 vessels
- External Electronic Flow Meter
- Fully adjustable 6 cycle valve
- Eliminates potential channelling for low flow conditions
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- System Controller Softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

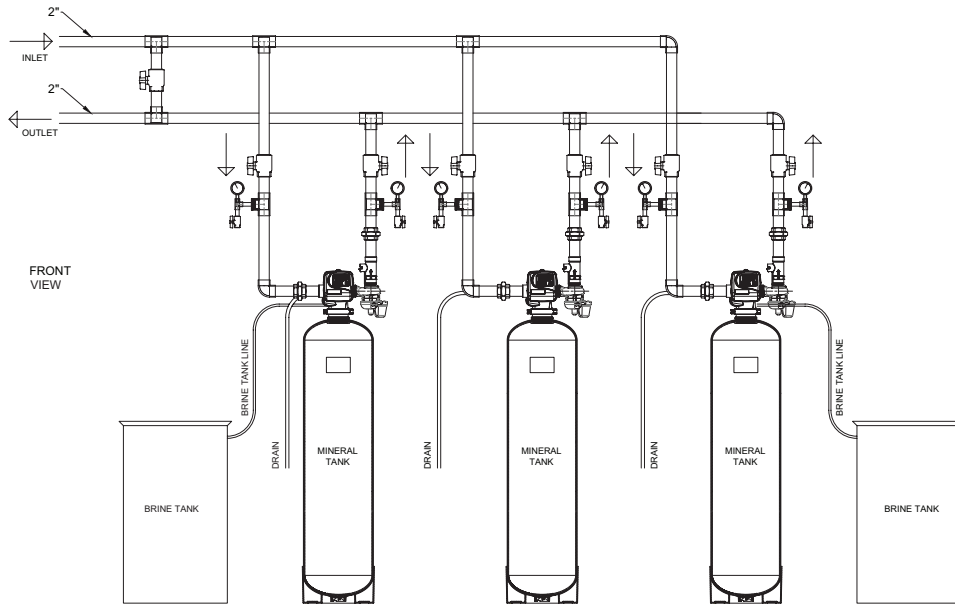
## WATER SOFTENER SPECIFICATIONS

| MODEL <sup>1</sup>  | Vessel Capacity (gr)  |                       | FLOW RATE (GPM) |                 |                                    |     |     |     |     | APPROX. SPACE REQUIRED (INCHES) |     |     |     |     | SHIPPING WEIGHT LBS |       |        |
|---------------------|-----------------------|-----------------------|-----------------|-----------------|------------------------------------|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|---------------------|-------|--------|
|                     | 10lbs/ft <sup>3</sup> | 15lbs/ft <sup>3</sup> | Min. Flow       | Critical/Vessel | Progressive Peak Flow <sup>2</sup> |     |     |     |     | LENGTH <sup>2</sup>             |     |     |     |     |                     | WIDTH | HEIGHT |
|                     |                       |                       |                 |                 | 2                                  | 3   | 4   | 5   | 6   | 2                               | 3   | 4   | 5   | 6   |                     |       |        |
| <b>EWS SC15N120</b> | 108,000               | 120,000               | 2.8             | 20              | 64                                 | 96  | 128 | 160 | 192 | 66                              | 140 | 190 | 245 | 300 | 24                  | 75    | 450    |
| <b>EWS SC15N150</b> | 135,000               | 150,000               | 3.5             | 25              | 80                                 | 120 | 160 | 200 | 240 | 75                              | 150 | 205 | 260 | 315 | 24                  | 74    | 600    |
| <b>EWS SC15N180</b> | 162,000               | 180,000               | 3.5             | 30              | 96                                 | 144 | 192 | 240 | 288 | 75                              | 150 | 205 | 260 | 315 | 24                  | 74    | 650    |
| <b>EWS SC15N210</b> | 189,000               | 210,000               | 4.8             | 35              | 112                                | 168 | 224 | 280 | 336 | 78                              | 160 | 214 | 275 | 330 | 24                  | 74    | 700    |
| <b>EWS SC15N240</b> | 216,000               | 240,000               | 6.3             | 40              | 128                                | 192 | 256 | 320 | 384 | 92                              | 186 | 248 | 320 | 385 | 30                  | 85    | 900    |
| <b>EWS SC15N300</b> | 270,000               | 300,000               | 6.3             | 50              | 136                                | 204 | 272 | 340 | 408 | 92                              | 186 | 248 | 320 | 385 | 30                  | 85    | 975    |
| <b>EWS SC15N450</b> | 405,000               | 450,000               | 9.8             | 75              | 140                                | 210 | 280 | 350 | 420 | 102                             | 210 | 290 | 355 | 425 | 39                  | 95    | 1,475  |

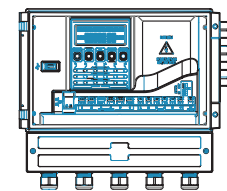
- **Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>**

1 = N must be replaced by number of Vessels to order.  
2 = Numbers given below denote the number of vessels.

# EXCALIBUR 2"QC COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE SOFTENER SPECIFICATIONS



**System Controller  
2" Fully Automatic  
Multi-Tank  
Electronic Demand  
Commercial/Industrial  
Water Softeners**



- Flow Rates up to 750 USGPM
- System designs up to 6 vessels
- External Electronic Flow Meters
- Fully adjustable 6 cycle valve
- Eliminates potential channelling for low flow conditions
- Progressive flow on demand soft water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- System Controller Softeners utilize NHWB valves to initiate regenerations and progressive flow system operations

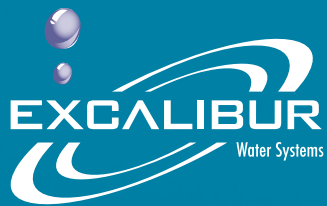
## WATER SOFTENER SPECIFICATIONS

| MODEL <sup>1</sup> | Vessel Capacity (gr)  |                       | FLOW RATE (GPM) |                 |                                    |     |     |     |     | APPROX. SPACE REQUIRED (INCHES) |     |     |     |     | SHIPPING WEIGHT LBS |       |        |
|--------------------|-----------------------|-----------------------|-----------------|-----------------|------------------------------------|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|---------------------|-------|--------|
|                    | 10lbs/ft <sup>3</sup> | 15lbs/ft <sup>3</sup> | Min. Flow       | Critical/Vessel | Progressive Peak Flow <sup>2</sup> |     |     |     |     | LENGTH <sup>2</sup>             |     |     |     |     |                     | WIDTH | HEIGHT |
|                    |                       |                       |                 |                 | 2                                  | 3   | 4   | 5   | 6   | 2                               | 3   | 4   | 5   | 6   |                     |       |        |
| EWS SC2MQCN120     | 108,000               | 120,000               | 2.8             | 20              | 64                                 | 96  | 128 | 160 | 192 | 68                              | 140 | 188 | 236 | 284 | 24                  | 75    | 500    |
| EWS SC2MQCN150     | 135,000               | 150,000               | 3.5             | 25              | 80                                 | 120 | 160 | 200 | 240 | 72                              | 146 | 196 | 246 | 296 | 24                  | 74    | 650    |
| EWS SC2MQCN180     | 162,000               | 180,000               | 3.5             | 30              | 96                                 | 144 | 192 | 240 | 288 | 72                              | 146 | 196 | 246 | 296 | 24                  | 74    | 700    |
| EWS SC2MQCN210     | 189,000               | 210,000               | 4.8             | 35              | 112                                | 168 | 224 | 280 | 336 | 82                              | 155 | 208 | 262 | 314 | 24                  | 74    | 750    |
| EWS SC2MQCN240     | 216,000               | 240,000               | 6.3             | 40              | 128                                | 192 | 256 | 320 | 384 | 96                              | 182 | 244 | 306 | 368 | 30                  | 85    | 950    |
| EWS SC2MQCN300     | 270,000               | 300,000               | 6.3             | 50              | 160                                | 240 | 320 | 400 | 480 | 96                              | 182 | 244 | 306 | 368 | 30                  | 85    | 1,025  |
| EWS SC2MQCN450     | 405,000               | 450,000               | 9.8             | 75              | 226                                | 339 | 452 | 565 | 678 | 107                             | 227 | 304 | 382 | 458 | 39                  | 95    | 1,500  |
| EWS SC2MQCN600     | 540,000               | 600,000               | 14.1            | 100             | 250                                | 375 | 500 | 625 | 750 | 130                             | 284 | 340 | 426 | 512 | 50                  | 109   | 2,000  |
| EWS SC2MQCN750     | 675,000               | 750,000               | 19.2            | 125             | 250                                | 375 | 500 | 625 | 750 | 140                             | 296 | 396 | 496 | 596 | 50                  | 109   | 2,750  |
| EWS SC2MQCN900     | 810,000               | 900,000               | 19.2            | 125             | 250                                | 375 | 500 | 625 | 750 | 140                             | 296 | 396 | 496 | 596 | 50                  | 109   | 3,000  |
| EWS SC2MQCN1200    | 1,080,000             | 1,200,000             | 25.0            | 125             | 250                                | 375 | 500 | 625 | 750 | 154                             | 314 | 420 | 526 | 632 | 50                  | 109   | 3,900  |

- Critical maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft<sup>3</sup>

1 = N must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.



## **EXCALIBUR WATER SYSTEMS**

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