



KineticoproTM
Total Water Care

HYDRUS SERIES WATER SOFTENERS

SIMPLEX • DUPLEX • TRIPLEX • MULTIPLEX

The Importance of Water Softening

Hard water is the result of high levels of calcium and magnesium carbonates, bicarbonates and sulfates in the water. These minerals cause aesthetic concerns as well as potential cost and energy-related issues with equipment across your operations. Water hardness can result in scale build-up on point-of-use applications, pipes and even fixtures, decreasing the overall efficiency and production of your equipment.

Hydrus Series POE Water Softeners

Kineticopro's Hydrus point-of-entry water softening systems are engineered to efficiently remove hardness. They are completely configurable to accommodate demanding, large water volume requirements. These advanced water softening systems can be combined with our Hydrus water filtration systems.



Equipment Protection

- Non-electric hydraulic valve operation eliminates the need for motors and maximizes longevity.
- Provides a consistent and continuous supply of clean, soft water to protect your plumbing and equipment.
- Incorporates countercurrent regeneration, recognized as the most efficient regeneration method. Conserves water and salt and eliminates hardness breakthrough.
- Engineered with corrosion-resistant valve and tanks to endure even the harshest environments and prolong equipment life.



Operational Efficiency

- Single or Multi-Tank system configurations available. Single-Tank system is most economical and space efficient, and Multi-Tank system offers flexibility for demanding commercial applications.
- Metered regeneration, based on actual water usage, eliminates guesswork and maximizes salt and water efficiency.
- Equipped with an advanced operator interface to help minimize cost and simplify the set-up process while maintaining operating versatility.



Environmentally Friendly

- Up to 30% reduction in waste waters.
- Up to 40% reduction in salt usage due to soft water, countercurrent regeneration.



Hydrus Point-of-Entry
Water Softener Systems

Common Market Segments



Grocery/Retail Stores



Hotel/Lodging



Healthcare



Manufacturing



Education

Also Used for:
Food & Beverage Processing
Facilities, Car Washes,
Laundromats, Agriculture
and Breweries

Hydrus Series

SPECIFICATIONS

| SIMPLEX | Flow @ 15 psi (1.03 bar) Pressure Drop US gpm (L/s) | Flow @ 30 psi (2.06 bar) Pressure Drop US gpm (L/s) | Backwash Flow Rate Per Tank US gpm (L/s) | Resin Volume Per Tank ft³ (L) | Regeneration Volume Per Tank US gal (L) | Regeneration Efficiency (gr CaCO ₃ / lb NaCl) | Regeneration Time Per Tank (min) | By-Pass | Tanks |
|------------|--|--|---|--|--|---|---|---------|-------------|
| HS 116s | 35 / 2.21* | N/A | 8 / 0.50 | 4 / 113 | 340 / 1287 | 3,333 | 120 | HW | (1) 16 x 65 |
| HS 118s | 45 / 2.84 | 64 / 4.04 | 8 / 0.50 | 5 / 142 | 391 / 1480 | 3,333 | 120 | HW | (1) 18 x 65 |
| HS 121s | 55 / 3.47 | 78 / 4.92 | 10 / 0.63 | 6 / 170 | 441 / 1669 | 3,333 | 120 | HW | (1) 24 x 65 |
| HS 124s | 65 / 4.10 | 92 / 5.80 | 15 / 0.95 | 8 / 227 | 563 / 2131 | 3,333 | 120 | HW | (1) 24 x 65 |
| HS 130s | 72 / 4.54 | 101 / 6.37 | 20 / 1.26 | 12 / 340 | 853 / 3229 | 3,333 | 150 | HW | (1) 30 x 72 |
| HS 136s | 78 / 4.92 | 110 / 6.94 | 30 / 1.89 | 18 / 510 | 1,264 / 4785 | 3,333 | 150 | HW | (1) 36 x 72 |
| DUPLEX | | | | | | | | | |
| HS 216s OD | 70 / 4.42* | N/A | 8 / 0.50 | 4 / 113 | 304 / 1150 | >4,000 | 120 | NONE | (2) 16 x 65 |
| HS 218s OD | 90 / 5.68 | 128 / 8.08 | 8 / 0.50 | 5 / 142 | 304 / 1151 | >4,000 | 120 | NONE | (2) 18 x 65 |
| HS 221s OD | 110 / 6.94 | 156 / 9.84 | 10 / 0.63 | 6 / 170 | 347 / 1314 | >4,000 | 120 | NONE | (2) 21 x 62 |
| HS 224s OD | 130 / 8.20 | 184 / 11.61 | 15 / 0.95 | 8 / 227 | 453 / 1715 | >4,000 | 120 | NONE | (2) 24 x 65 |
| HS 230s OD | 144 / 9.08 | 202 / 12.74 | 20 / 1.26 | 12 / 340 | 807 / 3055 | >4,000 | 150 | NONE | (2) 30 x 72 |
| HS 236s OD | 156 / 9.84 | 220 / 13.88 | 30 / 1.89 | 18 / 510 | 1,187 / 4493 | >4,000 | 150 | NONE | (2) 36 x 72 |
| HS 242s OD | 162 / 10.22 | 230 / 14.51 | 40 / 2.52 | 26 / 736 | 1,640 / 6208 | >4,000 | 150 | NONE | (2) 42 x 72 |
| TRIPLEX | | | | | | | | | |
| HS 316s OD | 105 / 6.62* | N/A | 8 / 0.50 | 4 / 113 | 304 / 1150 | >4,000 | 120 | NONE | (2) 16 x 65 |
| HS 318s OD | 135 / 8.52 | 192 / 12.11 | 8 / 0.50 | 5 / 142 | 304 / 1151 | >4,000 | 120 | NONE | (2) 18 x 65 |
| HS 321s OD | 165 / 10.41 | 234 / 14.76 | 10 / 0.63 | 6 / 170 | 347 / 1314 | >4,000 | 120 | NONE | (2) 21 x 62 |
| HS 324s OD | 195 / 12.30 | 276 / 17.41 | 15 / 0.95 | 8 / 227 | 453 / 1715 | >4,000 | 120 | NONE | (2) 24 x 65 |
| HS 330s OD | 216 / 13.63 | 303 / 19.12 | 20 / 1.26 | 12 / 340 | 807 / 3055 | >4,000 | 150 | NONE | (2) 30 x 72 |
| HS 336s OD | 234 / 14.76 | 330 / 20.82 | 30 / 1.89 | 18 / 510 | 1,187 / 4493 | >4,000 | 150 | NONE | (2) 36 x 72 |
| HS 342s OD | 243 / 15.33 | 345 / 21.77 | 40 / 2.52 | 26 / 736 | 1,640 / 6208 | >4,000 | 150 | NONE | (2) 42 x 72 |

* Recommended Service Flow Rate

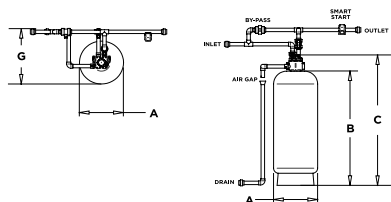
| System Type | A in / mm | B in / mm | C in / mm | D in / mm | E in / mm | F in / mm | G in / mm |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| HS X16s | 16 / 406 | 67 / 1702 | 79 / 2007 | 4 / 102 | 36 / 914 | 56 / 1422 | 26 / 660 |
| HS X18s | 18 / 457 | 67 / 1702 | 79 / 2007 | 4 / 102 | 40 / 1016 | 62 / 1575 | 28 / 711 |
| HS X21s | 21 / 533 | 67 / 1702 | 79 / 2007 | 4 / 102 | 46 / 1168 | 71 / 1803 | 31 / 787 |
| HS X24s | 24 / 610 | 67 / 1702 | 78 / 1981 | 4 / 102 | 52 / 1321 | 80 / 2032 | 34 / 864 |
| HS X30s | 30 / 762 | 86 / 2184 | 98 / 2489 | 4 / 102 | 64 / 1626 | 98 / 2489 | 40 / 1016 |
| HS X36s | 36 / 914 | 86 / 2184 | 98 / 2489 | 4 / 102 | 76 / 1930 | 116 / 2946 | 46 / 1168 |
| HS X42s | 42 / 1067 | 98 / 2489 | 109 / 2769 | 4 / 102 | 88 / 2235 | 134 / 3404 | 52 / 1321 |

| Brine Tank Size | X in / mm | Y in / mm |
|-----------------|--------------|--------------|
| 24 x 50 | 24/610 | 50/1270 |
| 30 x 48 | 30/762 | 48/1219 |
| 50 x 60 | 50/1270 | 60/1524 |
| 39 x 60 | 39/991 | 60/1524 |

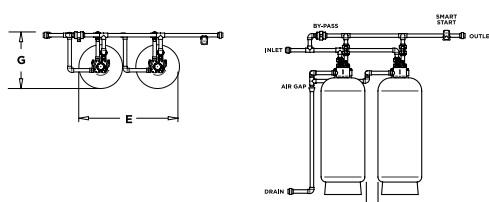
| Pipe Schedule | Pipe Size (in) |
|---------------|----------------|
| Inlet | 2 |
| Outlet | 2 |
| Drain | 2 |
| Brine | 1/2 tubing |

Note A: The "X" in the system size description refers to the number of tanks: Simplex = 1, Duplex = 2, Triplex = 3

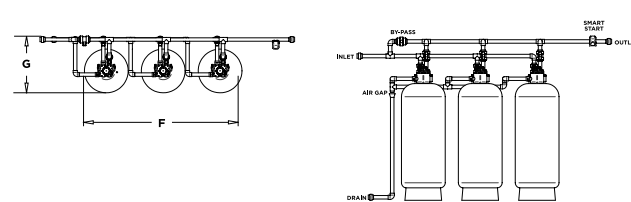
SIMPLEX



DUPLEX



TRIPLEX



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Hydrus valves are tested and certified by WQA against NSF/ANSI 61 drinking water system components - health effects.

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Made in U.S.A. 15178C SELL SHEET, HYDRUS SOFTENER_10-20