

CSE-U/CSP-U/CSEC-U/CSPC-U Specifications

| MODEL | | CSE-844U CSP-844U | CSE-948U CSP-948U | CSE-1044U CSP-1044U | CSE-1054U CSP-1054U | CSE-1252U CSP-1252U | CSE-1354U CSP-1354U | CSEC-835U CSPC-835U | CSEC-1035U CSPC-1035U |
|---|------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|
| Rated Softener Capacity:* (Grains/Lbs. Salt) | Minimum | 13,700 @ 3.4 | 18,200 @ 4.5 | 18,200 @ 4.5 | 27,600 @ 7.0 | 36,400 @ 9.0 | 45,800 @ 11.5 | 5,100 @ 2.3 | 18,200 @ 4.5 |
| | Medium | 16,800 @ 6.0 | 23,500 @ 9.0 | 23,500 @ 9.0 | 36,700 @ 15.0 | 47,000 @ 18.0 | 53,900 @ 18.0 | 7,300 @ 6.0 | 23,500 @ 9.0 |
| | Maximum | 18,800 @ 8.0 | 28,000 @ 15.0 | 28,000 @ 15.0 | 42,000 @ 22.5 | 56,100 @ 30.0 | 69,800 @ 37.0 | 7,800 @ 7.5 | 28,000 @ 15.0 |
| Efficiency at 1 lb Salt Setting (Grains/Lbs Salt) | | 4,040/1 | 4,040/1 | 4,040/1 | 4,040/1 | 4,040/1 | 4,040/1 | N/A | 4,040/1 |
| Max. Service Flow Rate (GPM) | | 11.7 | 13.1 | 16.0 | 13.3 | 16.4 | 17.1 | 9.6 | 16.0 |
| Max. Pressure Loss at Max. Service (PSI) | | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 9.0 | 15.0 |
| Min. to Max. Working Pressure (PSI) | | 30-100 | 30-100 | 30-100 | 30-100 | 30-100 | 30-100 | 30-100 | 30-100 |
| Min. to Max. Operating Temperature (°F) | | 33-100 | 33-100 | 33-100 | 33-100 | 33-100 | 33-100 | 33-100 | 33-100 |
| Max. Flow to Drain During Regeneration (GPM) | | 1.3 | 1.7 | 2.2 | 2.2 | 3.2 | 3.2 | 1.3 | 2.2 |
| Amount of High Capacity Cat-ion Resin (Cu. Ft.) | | .75 | 1.0 | 1.0 | 1.5 | 2.0 | 2.5 | .50 | 1.0 |
| Electrical Requirements (volts-hertz) | | 110-50/60 | 110-50/60 | 110-50/60 | 110-50/60 | 110-50/60 | 110-50/60 | 110-50/60 | 110-50/60 |
| Pipe Size | | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Total Dimensions: | Media Tank | 8"W x 52"H | 9"W x 56"H | 10"W x 52"H | 10"W x 62"H | 12"W x 60"H | 13"W x 62"H | 13.5"W x 42.5"H x 20.5"D | 13.5"W x 42.5"H x 20.5"D |
| | | 18"W x 33"H | 18"W x 33"H | 18"W x 33"H | 18"W x 33"H | 18"W x 40"H | 18"W x 40"H | | |

*All above water softeners are set at "medium salting" from the factory.

Cabinet dimensions represent the High-Profile cabinet option. Low-Profile cabinets are about one inch shorter in height than the High-Profile cabinet lid.

CSERC-U/CSPRC-U Specifications

| MODEL | | CSERC-1054U CSPRC-1054U | CSERC-1354U CSPRC-1354U |
|---|----------------------|----------------------------|----------------------------|
| Rated Softener Capacity: (Grains/Lbs. Salt) | Minimum | 18,200 @ 4.5 | 29,200 @ 6.75 |
| | Medium | 23,500 @ 9.0 | 36,700 @ 15.0 |
| | Maximum | 28,000 @ 15.0 | 42,000 @ 22.5 |
| Amount of High Capacity Cat-ion Resin Media (Cu. Ft.) | | 1.0 | 1.5 |
| Efficiency per/Lb at minimum salt setting (Grains/Lbs Salt) | | 4,330/1 | 4,330/1 |
| Max. Service Flow Rate (GPM) | | 13.7 | 16.9 |
| Max. Pressure Loss at Max. Service (PSI) | | 15 | 15 |
| Min. to Max. Working Pressure (PSI) | | 30-100 | 30-100 |
| Min. to Max. Operating Temperature (°F) | | 33-100 | 33-100 |
| Max. Flow to Drain During Regeneration (GPM) | | 5.3 | 7.5 |
| Electrical Requirements (volts-hertz) | | 110-50/60 | 110-50/60 |
| Pipe Size | | 1" | 1" |
| Total Dimensions: | Media Tank and Valve | 10"W x 62"H | 13"W x 62"H |
| | Brine Tank | 18"W x 33"H | 18"W x 40"H |



¹ Iron removal may vary depending on form of iron, pH and other local conditions. On waters that are pre-chlorinated, or where other pre-oxidation occurs, an iron precipitate can form that is too small to be filtered.

² Unit not tested for capacity at these peak flow rates. Water quality may vary.

Cycle Times and Salt Usage (in minutes)

| MODEL | CSE-844U CSP-844U | CSE-948U CSP-948U | CSE-1044U CSP-1044U | CSE-1054U CSP-1054U | CSE-1252U CSP-1252U | CSE-1354U CSP-1354U | CSEC-835U CSPC-835U | CSEC-1035U CSPC-1035U | CSERC-1054U CSPRC-1054U | CSERC-1354U CSPRC-1354U |
|---|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|----------------------------|----------------------------|
| Brine Refill | 4 | 6 | 6 | 10 | 12 | 12 | 4 | 6 | 2.8 | 4.5 |
| Regenerant (lbs) | 6.0 | 9.0 | 9.0 | 15.0 | 18.0 | 18.0 | 6.0 | 9.0 | 4.5 | 7 |
| Service | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| The above sequence takes place prior to regeneration; therefore, minutes are not included in totals. | | | | | | | | | | |
| Regenerate | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Backwash | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Rapid Rinse | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Total | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 104 |

Manufacturer recommends the use of coarse solar salt in these water softeners.

CSE-U and CSP-U -844, -948, -1044, -1054, -1252, -1354, CSEC-U and CSPC-U -835, -1035, and CSERC and CSPRC -1054 and -1354 softeners are certified by WQA against NSF/ANSI Standard 44 for the reduction of hardness as verified and substantiated by test data.

Only the efficiency-rated water softener models have a rated capacity of not less than 3,350 grains of total hardness exchange per pound of salt (based on NaCl) and shall not deliver more salt or be operated at a sustained maximum service flow rate greater than its listed rating. Efficiency is measured by a laboratory test described in NSF/ANSI 44. The test represents the maximum possible efficiency the system can achieve after the system has been installed. The operational efficiency is typically less than the efficiency due to individual application factors including water hardness, water usage, and other contaminants that reduce the softener's capacity.

These water softeners are not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

