

# Specifications and Performance Claims

This model is efficiency rated. The efficiency rating is valid only at the minimum stated salt dose. The softener has a demand initiated regeneration (D.I.R) feature that complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in its operation.

The softener has a rated salt efficiency of not less than 4,000 grains of total hardness exchange per pound of salt (based on sodium chloride), and shall not deliver more salt than its listed rating or be operated at a sustained maximum service flow rate greater than its listed rating. This softener has been proven to deliver soft water for at least ten continuous minutes at the rated service flow rate. The rated salt efficiency is measured by laboratory test described in NSF/ANSI Standard 44. These tests represent the maximum possible efficiency that the system can achieve. Operational efficiency is the actual efficiency after the system has been installed. It 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.

## Specifications

| Model   | GXSH40V   | GXSH45V   |
|---|---|---|
| Rated Capacity* (Grains@ Salt Dose)                           | 11,700 @ 2.3 lbs<br>31,500 @ 8.7 lbs.<br>40,000 @ 15.1 lbs. | 13,200 @ 2.6 lbs<br>35,500 @ 9.9 lbs.<br>45,100 @ 17.0 lbs. |
| Rated Efficiency** (Grains/Pound of Salt @ Minimum Salt Dose) | 5,090 @ 2.3 lbs.  | 5,050 @ 2.6 lbs.  |
| Water used during Regeneration (gallons/grains)               | 2.7 /1000   | 2.8 /1000   |
| Total Water Used per Regeneration @ Maximum Salt Dose         | 37.0 gallons  | 43.0 gallons  |
| Amount of High Capacity Ion Exchange Resin (lb/cu.ft.)        | 57.56/1.11  | 65.0/1.25   |
| Resin Tank Nominal Size (in., dia. x height)                  | 9 x 40  | 10 x 40   |
| Service Flow Rate (gpm)                                       | 9.5   | 9.5   |
| Pressure Drop at Rated Service Flow (psig)                    | 12.7  | 10.3  |
| Water Supply Maximum Hardness (gpg)                           | 110   | 160   |
| Water Supply Maximum Clear Water Iron (ppm)***                | 8   | 10  |
| Water Pressure Limits (minimum-maximum psi)****               | 20-125  | 20-125  |
| Water Temperature Limits (minimum-max. °F)                    | 40-120  | 40-120  |
| Maximum Flow Rate to Drain (gpm)                              | 2.3   | 2.3   |

These systems conform to NSF/ANSI 44 for the specific capacity claims as verified and substantiated by test data.

\* Testing was performed using pellet grade sodium chloride as

the regenerant salt.

\*\* Efficiency rating is valid only at the lowest stated salt dosage. These softeners were efficiency rated according to NSF/ANSI 44.

\*\*\* Extent of iron removal may vary with conditions. The capacity to reduce clear water iron is substantiated by WQA test data.

State of Wisconsin requires additional treatment if water supply contains greater than 5 ppm clear water iron. Refer to Cleaning Iron Out of the Water Softening System section.

\*\*\*\* Canada working pressure limits: 1.4–7.0 kg/cm<sup>2</sup>.

## Performance Claims

| Contaminant    | Influent Challenge Level | Maximum Allowable Product Water Level |
|----------------|--------------------------|---------------------------------------|
| Barium         | 10 ±10% mg/L             | 2.0 mg/L                              |
| Radium 226/228 | 25 pCi/L                 | 5pCi/L                                |

Test parameters include: pH = 7.5±0.5, flow rate = 7.5 gpm and dynamic pressure = 35±5 psig