

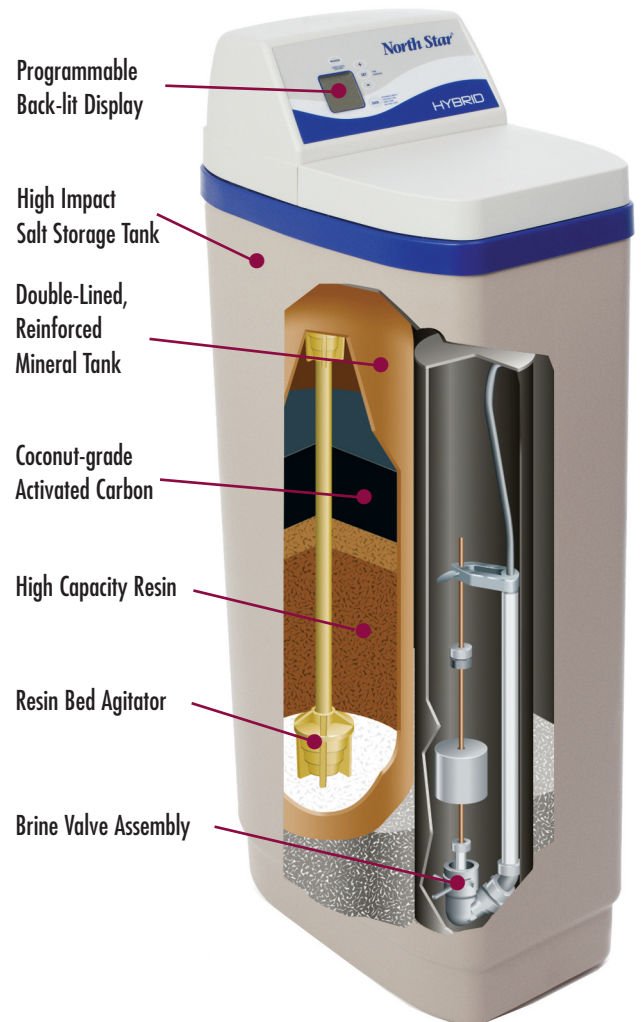
City Softener

Model NSR17CS (2-in-1 Hybrid Softener and Whole Home Filter)

Softens and filters water throughout the home

Features & Benefits

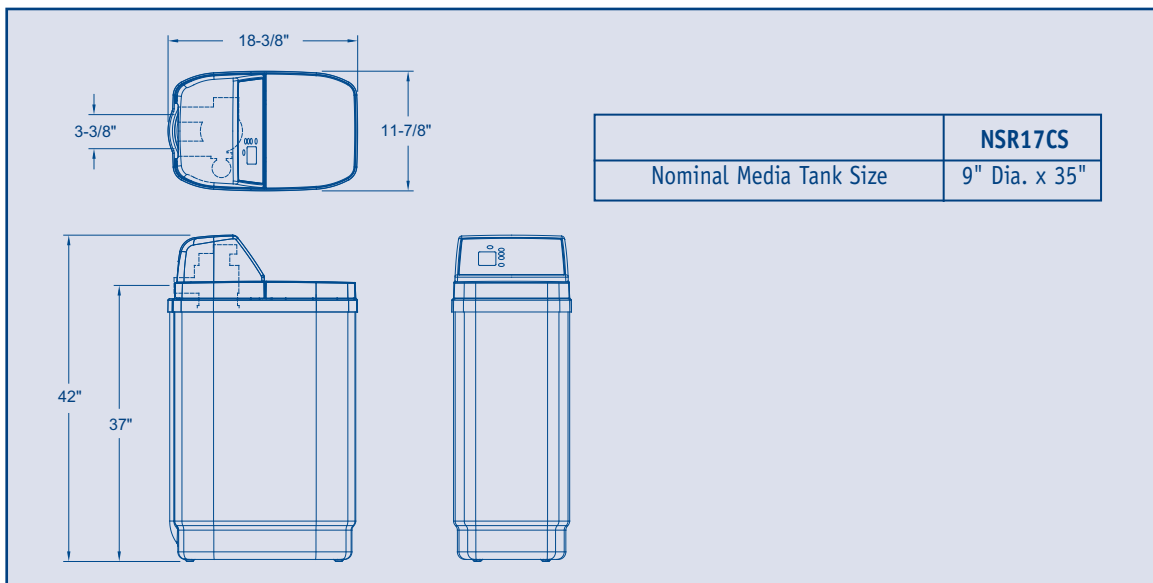
- **Large capacity whole-home softening and filtration** – Great for most homes and family sizes
- **No filters to change** – Saving you time and money
- **Space-saving compact design** – Two products in one compact system for easier installation
- **High capacity resin** – Special long-life resin for efficient use of salt and water
- **Coconut-grade activated carbon** – Eliminates chlorine taste & odor
- **“Look Ahead” technology** – Patented programming monitors and learns your water use to optimize regeneration, saving you salt and water
- **Custom blending valve** – Allows you to select how soft you want your water
- **Bypass valve** – Provides ease of servicing and cleaning
- **Ultra demand controller** – Includes backlit display, with fully programmable settings and diagnostics
- **Heavy duty valve** – Has fewer moving parts for reliable operation
- **Super Cap[®] time keeper** – Maintains accurate time and settings in the event of a power loss
- **Counter-current regeneration** – Optimized regeneration process that minimizes the use of salt and water
- **Resin bed agitator** – Keeps the bed free of iron, dirt and other solids for maximum efficiency
- **Double-lined, reinforced mineral tank** – Providing added strength and durability
- **Low voltage system** – 24 V electrical system reduced chance of electrical hazards
- **Installation kit included**



Designed, Engineered & Assembled in the U.S.A



Dimensions



Specifications – Model NSR17CS (Part #7351062)

	NSR17CS	
Max Capacity (grains)	18,951	
Efficiency (grains removed per lb of salt @ min salt dose)	5,075 @ 1.85 lbs	
Service Flow Rate (gpm)	6.0	
Intermittent Flow Rate* (gpm @ 15 psi drop)	8.2	
Amount of High Capacity Ion Exchange Resin (cu ft)	0.62	
Amount of Activated Carbon (cu ft)	0.21	
Pressure Drop at Service Flow Rate (psig)	9.0	
Water Supply Max Hardness (gpg)	50	
Water Pressure Limits (min/max)	20 – 125 psi	
Water Temperature Limits (min/max)	40 – 120 °F	
Minimum Water Supply Flow Rate (gpm)	3	
Maximum Flow Rate to Drain During Recharge (gpm)	2.0	
Capacity at Chlorine Concentration** of:	0.50 ppm	1,770,000 gal
	0.75 ppm	1,160,000 gal
	1.0 ppm	870,000 gal
	1.5 ppm	580,000 gal
	2.0 ppm	450,000 gal

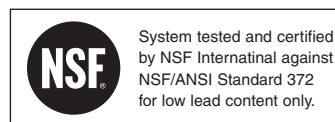
*Intermittent flow rate does not represent the maximum service flow rate used for determining the softener's capacity and efficiency. Continuous operation at flow rates greater than the service flow rate may affect capacity and efficiency performance.

**Typical residential chlorine concentration is 0.5 to 1.0 ppm.

Variable Salt Dose: The salt dose is selected by the electronic controls at regeneration time based on the amount needed.

North Star[®]
WATER CONDITIONING

A Marmon Water/Berkshire Hathaway Company



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