North Star®
WATER CONDITIONING

The Professionals' Choice

Water Softeners

Ultra Demand and Electronic Demand Models

With patented Look-Ahead technology for ultra-high efficiency

Features & Benefits

- **Backlit LCD display** – Easy to read in dark basements
- **Super Cap® time keeper** – With 72-hour memory maintains accurate time and settings in the event of a power loss
- **Permanent program memory** – History log
- **Easy to set** – Just enter time and hardness
- **Recharges according to actual use...not estimates**
- **No vacation settings necessary**
- **Environseal™ circuitry protection** – Protects against salt corrosion and high humidity
- **No timer gears to wear out**
- **Protection from static, power surges, and interference**
- **Installation Ready** – Includes bybass valve and 12 ft. of drain line
- **Ultra demand controller** – Fully programmable settings and diagnostics
- **Heavy duty valve** – Has fewer moving parts for reliable operation
- **Counter-current regeneration** – Optimized regeneration process that minimizes the use of salt and water
- **High capacity resin** – Special long-life resin for efficient 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

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

Specifications

CABINET MODELS (All-in-one construction)

Model	Part No.	Max Capacity (Grains)	Resin (ft^3)	Standard Connection Size	Valve	Rated Service Flow Rate (gpm)	Intermittent Flow Rate (gpm @ 15 psi drop)	Rated Clearwater Iron Removal (ppm)	Electronics – ED: Electronic Demand UD: Ultra Demand	Efficiency (grains removed per lb of salt)
NSC15ED	7267598	15,700	0.55	1"	Standard	5.3	10.1	4	ED	4160
NSC25ED	7267603	26,600	0.7	1"	Standard	6	7.5	7	ED	5000
NSC30UD	7267629	30,200	0.78	1"	Standard	7.3	7.3	8	UD	5120
NSC30UD1	7267645	34,300	0.97	1"	High Flow	7.5	11.0	5	UD	5030
NSC40UD1	7267653	39,000	1.08	1"	High Flow	10	10.2	5	UD	5100
NSR17CS*	7351062	18,900	0.62	1"	Standard	6	8.2	—	UD	5075

TWO-TANK MODELS (Separate resin tank and brine tank, Versatile installation options)

Model	Part No.	Max Capacity (Grains)	Resin (ft^3)	Standard Connection Size	Valve	Rated Service Flow Rate (gpm)	Intermittent Flow Rate (gpm @ 15 psi drop)	Rated Clearwater Iron Removal (ppm)	Electronics – ED: Electronic Demand UD: Ultra Demand	Efficiency (grains removed per lb of salt)
NST25ED‡	7267611	26,600	0.7	1"	Standard	6	7.5	7	ED	5000
NST30UD	7267637	30,200	0.78	1"	Standard	7.3	7.3	8	UD	5120
NST45UD1	7267661	45,400	1.26	1"	High Flow	10	12.1	12	UD	5120
NST70UD1	7267679	70,000	1.94	1"	High Flow	13.5‡‡	13.5	19	UD	5110

‡ Comes with Clear-Vu™ tank wrap in place of resin tank shroud ‡‡ Peak flow is 22.7 @ 30 psi drop

Dimensions

Model	A	B	C	D	E
Cabinet Models					
NSC15ED	32"	27 1/4"	11 1/2"	18 3/4"	—
NSC25ED	48 3/4"	41 1/4"	18 1/4"	—	—
NSC30UD	48 3/4"	41 1/4"	18 1/4"	—	—
NSC30UD1	50 3/8"	41 5/8"	18 1/4"	—	—
NSC40UD1	50 3/8"	41 5/8"	18 1/4"	—	—
NSR17CS*	42"	37"	11 7/8"	18 3/8"	—
Two-Tank Models					
NST25ED	48 3/4"	41 1/4"	11 1/2"	39"	18"
NST30UD	48 3/4"	41 1/4"	11 1/2"	39"	18"
NST45UD1	50 3/8"	41 5/8"	14"	39"	18"
NST70UD1	64"	55 1/2"	14"	39"	18"

*Certified against NSF/ANSI Standard 372 only.

Note: All models include by-pass valve, manual, transformer, drain tubing and installation parts bag.

SAMPLE NORTH STAR MODEL NUMBER BREAKDOWN:

NS C 30 UD 1

NS: North Star

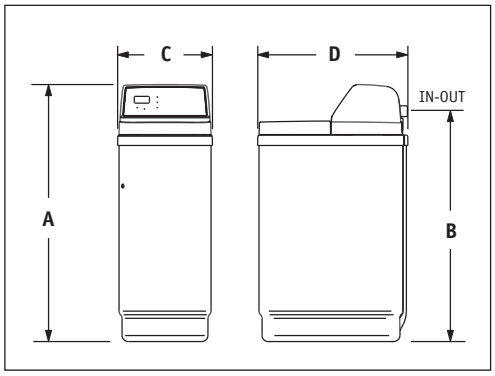
C: Cabinet Models
(T: Two-Tank Models)
(R: Refiner/Hybrid)

30: Capacity in Kilograins

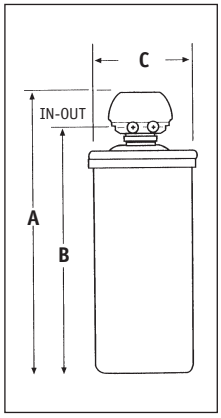
UD: Ultra Demand
(ED: Electronic Demand)
(CS: Carbon/Softener)

1: High Flow Valve
(Blank: Standard Valve)

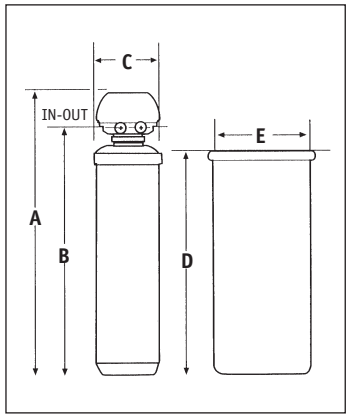
SPACE SAVER MODEL
(NSC15ED)



CABINET MODEL



TWO-TANK MODEL



North Star® WATER CONDITIONING

A Marmon Water/Berkshire Hathaway Company

MEMBER Water Quality Association

NSF System tested and certified by NSF Internatinal against NSF/ANSI for hardness reduction and efficiency.

ISO 9001 REGISTERED

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