

# 489 High Efficiency Series Water Softener

**NOVO**<sup>TM</sup>  
WATER CONDITIONING PRODUCTS



## The Trouble With Hard Water

Hard water (calcium & magnesium) is a common problem for many homeowners and businesses. When hardness minerals are combined with heat it forms troublesome scale. Scale causes costly build-up in your plumbing, water heater and other water using appliances. When combined with soap, the minerals form soap curd or scum that makes skin dry and itchy, hair lifeless, laundry dull and builds up on fixtures.



### Benefit From Softer Water:

- ➔ Silky shiny hair, Soft supple skin
- ➔ Use up to 75% less soap
- ➔ Lower water heating cost by 29%
- ➔ Save as much as \$479 annually\*

\*Potential savings based on Water Quality Research Foundation Battelle Institute Study

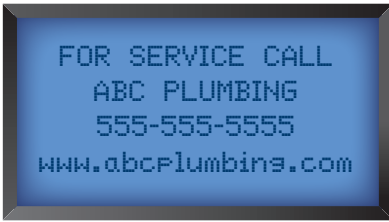


TwinTank Model



Cabinet Model



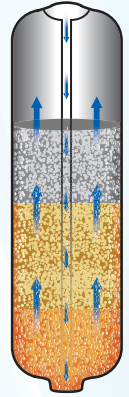


### Programmable Dealer Contact Display

- ➔ **LOW SALT REMINDER** - calculates salt usage and provides a visual and audible reminder to add salt
- ➔ **MAINTENANCE REMINDER** - allows installer to set a reminder for customer to perform required scheduled maintenance (visual and audible)

## Features:

- ➔ True 1" porting provides high flow rates for larger homes
- ➔ Upflow Regeneration with Optimal Precision Brining provides high-efficiency performance and lowest possible salt usage.
- ➔ Adjustable backwash frequency saves up to 2,000 gallons of water per year
- ➔ Large 4 line Touch Pad LCD display. No confusing symbols or codes.
- ➔ Automatic reserve – adjusts based on actual usage
- ➔ Automatic System Flush refreshes system during periods of non-use preventing bacteria growth
- ➔ Soft Water Recharge performs quick regeneration ensuring you never run out of soft water
- ➔ Soft Water Brine Tank Refill conserves capacity and keeps brine tank clean
- ➔ Time saving quick connect features on bypass, drain line and powercord
- ➔ Meter immediate; meter delayed; meter override; vacation and calendar clock modes
- ➔ Self charging capacitor keeps date / time of day for 48 hours while programming remains in permanent memory
- ➔ Space saving bypass with integrated turbine meter
- ➔ Comes with 1" 90 degree elbows NPT
- ➔ NSF certified control valve and pressure tank; IAPMO certified ion exchange resin



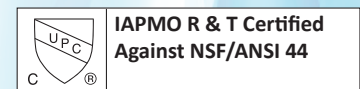
**Upflow Regeneration** drives the hardness minerals up through the already depleted resin and out to drain - saving both salt and the unused portion of the resin for future use.



7 Year Warranty Control Valve Lifetime Warranty Pressure tank

Part #	Model	System Capacity Grains			Flow Rate			Regeneration Water Usage (Gallons)		Mineral Tank Size	Resin Cu. Ft.	Brine Tank / Cabinet Size Inches	Salt Capacity (Lbs)	Ship Weight (Lbs)
		@ 10 lbs/ cu ft	@ 6 lbs/ cu ft (Factory Setting)	@ 3 lbs/ cu ft	Flow Rate @ 15 psi Pressure Drop	Flow Rate @ 25 psi Pressure Drop	Backwash USGPM	Clean Water (Factory Setting)	Problem Water					
15010660	NVO489UF-075	22,500	18,750	11,250	10.4 gpm	14.3 gpm	1.5	34.0	49.6	8 x 44	0.75	18.1 x 34.7	270	93
15010661	NVO489UF-100	30,000	25,000	15,000	11.0 gpm	15.0 gpm	2.0	43.4	64.3	9 x 48	1.00	18.1 x 34.7	270	110
15010662	NVO489UF-150	45,000	37,500	22,500	11.2 gpm	15.1 gpm	2.4	62.7	90.3	10 x 54	1.50	18.1 x 34.7	270	141
15010663	NVO489UF-200	60,000	50,000	30,000	12.2 gpm	16.2 gpm	3.5	87.1	124.6	12 x 52	2.00	20.3 x 37.4	350	158
15010664	NVO489UF-300*	90,000	75,000	45,000	12.6 gpm	16.6 gpm	5.0	139.2	196.2	14 x 65	3.00	23.0 x 40.5	420	244
15010693	NVO489UF-100C	30,000	25,000	15,000	12.0 gpm	16.0 gpm	2.4	48.6	69.5	10 x 35	1.00	13.8 x 23.6 x 43.3	225	110
Regeneration Type		Counter Current / Upflow												
Plumbing Connections		Includes 1" 90 Degree Elbow Connectors												
Resin Type		Aquafine 8% High Capacity Ion Exchange Resin												
Electrical Requirements		Input 120V 60Hz - Output 12V 650mA												
Water Temperature		Min. 39 - Max. 100 Degrees Fahrenheit												
Water Pressure		Min. 20 - Max 125 psi												

\*Units larger than 2.0 cu ft come unloaded.



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