

## Tapworks Northstar – NSC 40 UD1 Commercial



	Specifications
Total Height	1280mm (50 <sup>3</sup> / <sub>8</sub> "
Height to Salt Lid	1016mm (40")
Inlet/Outlet Height	1057mm (41 <sup>5</sup> / <sub>8</sub> "
Depth	464mm (18 <sup>1</sup> / <sub>4</sub> "
Total depth including connectors	578mm (22 <sup>3</sup> / <sub>4</sub> "
Width	464mm (18 <sup>1</sup> / <sub>4</sub> "
Drain height	1098mm (43 <sup>1</sup> / <sub>4</sub> "
Overflow height	870mm (34 <sup>1</sup> / <sub>4</sub> "
Resin volume	30 litres
Salt used per regeneration (proportional)	1.7-5.3Kg
Water used to regenerate resin bed	145 litres
Maximum daytime working pressure	4.76Bar (70 psi)
Minimum daytime working pressure	1.7Bar (25 psi)
Maximum operating temperature	49°C
Electrical supply via transformer	24V 50Hz
Maximum Flow rate (peak)	5.0m <sup>3</sup> /hr / 83.3 ltr/min
Flow rate with 1 Bar pressure drop ltr/pm	38 litres/per min
Inlet and outlet connections	1" BSP male
Drain and overflow connections	½" hose spigot
Weight excluding water and salt	55 Kg
Salt storage capacity	91Kg
Maximum softened water capacity @300ppm	8424 litres
Maximum softened water capacity @400ppm	6318 litres
Maximum softened water capacity @500ppm	5054 litres
People days capacity @300ppm (based on 160 ltrs/day)	52

### Features that separate our products from our competitors include:-

- **Reliable and safe low voltage electronics**
- **Unique Genius Chip® technology** for optimum salt and water usage
- **High flow rates as standard** – for unvented systems
- **Up flow recharging** – using softened water – for maximum efficiency
- **Remote diagnostics facility** to aid service efficiency
- **Ultra-fine and solvent free resins** completely remove water hardness quickly and efficiently
- **10 years warranty on the resin vessel**
- **Easy to install and maintain** – just add salt from time to time
- **Full service and warranty back-up** from our experienced team of engineers
- **Designed and made by the world's largest manufacturer of domestic water softeners**
- **Site survey and specification service is available** – talk to our specialist team

**For application and sizing advice, please contact Tapworks on: 01494 480 621**

Tapworks Water Softeners, Mill Road, Stokenchurch, High Wycombe, Bucks HP14 3TP

**Telephone** 01494 480 621 • **Facsimile** 01494 484 312 • **E-mail** info@tapworks.co.uk

## Saving Salt and Water!

Tapworks Northstar Range features the unique proportional Salting with "Genius Chip™" technology whether in Simplex, Duplex, Triplex or Quadplex operation. The exact amount of salt needed for each regeneration is measured and calculated in proportion to the amount of softened water used since the last regeneration.

In addition to this "Standard Proportional Salting" the "Genius Chip™" also adjusts the salt levels automatically. (This affects operating efficiency) to reflect your consumption. So lower water usage will result in even greater efficiency. Then when you return to higher water usage, no problem! the "Genius Chip™" automatically adjusts the salt level to compensate AND increases the the water softener's maximum capacity.

## Northstar Range Features!

The TapWorks Northstar Range incorporates many beneficial features throughout the range. Some of which are detailed below.



**Convenient Snap Lock.**  
(See Picture above)  
Assures proper fastening of tank to control valve. Allows easy disassembly. No threads to "freeze" or become distorted.



**Heavy-Duty Valve.** (See Picture left)

Has fewer moving parts than other valves and no metallic parts to become rusted, corroded, or "frozen" by problem water. Handles water pressure to 125 PSI (5.5 BAR).

**Decorative Jacket.**  
Reduces exterior tank "sweating" in high humidity. Provides attractive look.

**High Capacity Resin.**  
Delivers efficient salt and water use. Has long life.

**Bottom Distributor.**  
Uses water pressure to rinse the resin bed with turbo flow action. Rids bed of iron, dirt and other solids to keep resin clean and efficient. Provides maximum capacity.

**Dual, Extra-Strength Construction Mineral Tank.**

Exterior wrapped with fibreglass for strength. No metal to rust or corrode.



**High-Impact Salt Storage Tank.**

Made of high-density polyethylene. Withstands impacts and retains shape even when full of salt.

**Insta Brine Feed.**

Solid-state controlled brining eliminates need for troublesome salt platform. (Only the needed amount of water is added to the salt immediately before regeneration.) Helps eliminate bridging and tank sweating.

**Positive-Action Brine Valve.**

Snap together construction eliminates use of solvents that potentially contaminate water. Positive-action eliminates over-filling and provides air shut-off at end of regeneration.

**Ultra Controller.**

The Ultra Demand System is used on the ¾" & 1" valved models it features: Demand Regeneration, Proportional Salting, Genius Chip Control, Remote Diagnostics and, of course, reliability comes as standard.



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