

ProFlow Deluxe

The ProFlow Deluxe series Commercial Water Softeners are suitable for applications up to 150,000 grains of hardness reduction capacity at peak flow rates of up to 40 gpm.

Operation of the Softener

Hard water contains dissolved minerals and metals in the form of Calcium (Ca), Magnesium (Mg), Iron (Fe), Copper (Cu) & Zinc (Zn). Reduction of these contaminants is accomplished by softening the water through an ion exchange process. As water flows through the mineral tank, the contaminants become attached onto and inside the resin. Over a period of time, the resin will become saturated with contaminants, and the softener will require regeneration using a sodium or potassium brine solution.

Softening Media - AquaPro 500-2 Hybrid

The exchange media is a high quality, FDA certified, commercial grade strong acid hybrid (Cation) Functional Matrix resin with a very high whole bead count, no color throw, physically hard, and is moderately chlorine resistant. Hybrid media is engineered to encompass all the attributes of 500-1 softening media and leverage all functions of 500-2 Conditioning media when working together with ProGuard or ProGuard Plus. The media combines high operating capacity with excellent chemical and physical stability for a long dependable life. An NSF-approved clarifying media is included to provide crystal-clear water. Food-grade gravel under-bedding ensures uniform flow, minimal pressure drop, and excellent performance.

Controller/Meter

Regeneration of the system is initiated by a simplified digital control, which electronically meters softened water flow and makes decisions to regenerate based on water consumption and program settings. Salt dosage is controlled fractionally to maximize efficiency.

Regeneration

These softener models are controlled electronically. A fully programmable microprocessor controls Tank Fill, Percolation, Ion Exchange, Double Backwash, Rapid Rinse and return to service cycles.

Control Valve

A hydraulically balanced, Teflon coated piston slides effortlessly through seals & spacers. All parts in the water-way are either Teflon coated brass or composite Noryl® materials for a long and reliable service life.

Resin Tank

All softener models feature a non-corrosive fiberglass tank, with a one piece thermoplastic inner liner. The tank has a maximum working pressure of 90 psi and a working temperature up to 120°F. The tank is approved by NSF, UL, FDA, and meets WQA Standard S-100. All fiberglass tanks carry a limited lifetime warranty.

Brine Tank

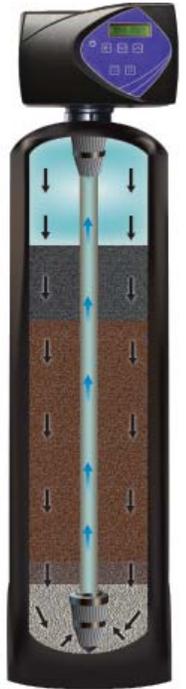
A high capacity brine tank is included as part of the system. The brine tank is a combination brine maker and salt storage vessel and is made of tough, high-density polyethylene. Larger tanks are available for extra salt storage capacity, if required. Brine tanks 24" diameter and smaller feature a grid plate for maximum saturation of brine.

Brine System

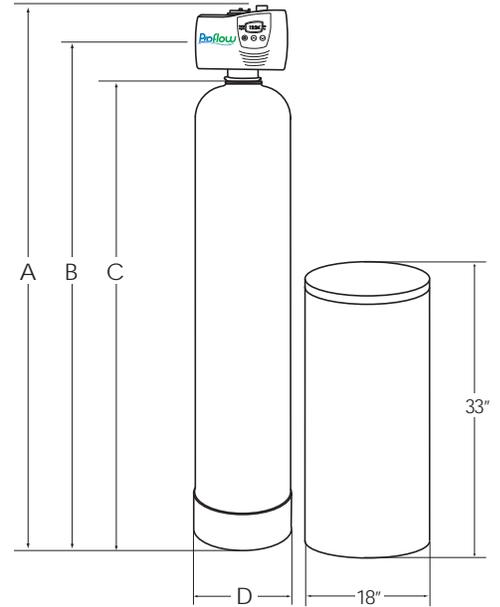
Brine refill is automatically controlled by the computer to provide the exact amount of brine for each regeneration. The Brine System has a float and safety valve shut-off, which minimizes the chance of overflowing the brine tank. All units are equipped with an air check.

ProGuard & ProGuard Plus

A ProGuard reservoir is included with this system to ensure peak performance and maximum protection from inorganic metals and minerals while maximizing system efficiency.



Commercial Water Softener



ProFlow Deluxe

	PF-D-35	PF-D-50	PF-D-72	PF-D-100	PF-D-135
Maximum Capacity (Grains-CaCo3)	35,000	50,000	72,000	100,000	135,000
Economy Capacity (Grains-CaCo3)	26,400	39,600	52,800	79,200	105,600
Salt used per Cleaning (Max)	15	22	30	48	60
Salt used per Cleaning (Economy)	8	12	16	24	35
Peak Flow Rate (gpm) @ 75psi inlet, 25psi drop	25	33	35	38	40
Water Pressure Range (psi)	45-75	45-75	45-75	45-75	45-75
Maximum Inlet Pipe Size	1.25"	1.25"	1.25"	1.5"	1.5"
Dimension A - overall system height	52.5"	55.5"	68"	63"	75"
Dimension B - system piping height	48"	51"	64"	59"	70.5"
Dimension C - height of mineral tank	44"	47"	60"	55"	66"
Dimension D - system tank diameter	8"	10"	10"	13"	14"