**Equipment Specification Sheet**

**Model 85TA-120-1D400 - 1’’ Duplex Water Softener,**

**Electronic Meter Initiated, Service Stand-by.**

**Mineral Tank**

There shall be two only 16” diameter x 65” high fiberglass mineral tanks. The tanks shall be designed for 100 PSI operating pressure and tested to 150 PSI.

# Brine Tank

The combination salt storage / brine tank shall be constructed of heavy duty polyethylene. The size will be 23” diameter x 40” high and will include salt support plate, air check valve, safety float, brine well, and lid.

**Control System**

The motor driven 1” series 85TA noryl body control valve will perform the functions of backwash, upflow brining, slow rinse, rapid rinse, brine tank refill, and returns to service automatically. The 12V electronic control can be programmed to cause the unit to regenerate at a predetermined gallonage. The control will allow only one unit in service at a time and on regeneration, the second unit will come immediately into service and the first unit, after the regeneration cycle, will go into standby mode. The electronic control provides for NEMA 3R enclosure, VFD display with user panel layout utilizing LED status / programming indicators.

**Collection and Distribution**

A riser tube system shall be utilized to evenly collect and distribute the flow of water over the entire bed.

**Ion-Exchange Resin**

Each unit shall contain 4.0 cubic feet of AQ100 high capacity polystyrene ion-exchange resin.

**Performance**

Each unit shall provide 100,000 (120,000) grains capacity based on a regeneration at a 6 (10) pound salt level per cubic foot of resin. This setting will use approximately 24 (40) pounds of salt per regeneration.

**Flow Rate**

Fully softened water may be drawn continuously at flow rates of up to 12.6 USGPM, peak flow rates up to 16.6 USGPM at 25 psig pressure loss.

# Warranty

Equipment and /or parts shall be covered by manufacturer’s replacement warranty as follows:

* Fiberglass Mineral tanks – FIVE (5) YEARS
* Brine Tanks – ONE (1) YEAR
* Control Valve & Electronics – FIVE (5) YEARS
* All Other Components – ONE (1)
* Detailed Terms and Conditions of Sale and Warranty are detailed on document # 920401 and available upon request.