

- Versatile—Single or multiple softener tank systems
- Flexible regeneration cycle programming
- Integral water meter circuit with thru-put gallons display
- Continuous display of cycle status and time remaining
- NOVRAM—Permanent retention of data
- Battery back-up for glow measurement during power fail
- Multiple initiation options; time, meter, pushbutton
- One relay option available at addition cost
- User friendly programming on built-in keypad
- NEMA 4 face panel seal



AA Tech's 962 controller is an electronic programmable regeneration controller designed for simple and multiple softener systems. The significant capabilities of this controller include:

Versatility—Available in three versions

- **Simplex Four Position Softener**
 - Backwash, Brine-Displace Rinse, Fast Rinse and Service
- **Simplex Five Position Softener** - utilizes separate timed brine transfer step
 - Backwash, Brine, Displace Rinse, Fast Rinse and Service
- **Duplex Two Tank Alternating Softener with Unit A / Unit B "In-Service" pilot light**
 - One softener in-service, One softener in-standby

Flexible regeneration cycle programming

The 962 controls a Series 48, 51, or 58 multiport stager which sequences the automatic diaphragm valves in the softener manifold through the required regeneration cycles. Up to 15 programmable timed regeneration cycles are available depending on the type of system selected. Cycles are programmed in range of 000 to 999 minutes.

Integral water meter circuitry

The 962 will directly accept a hall effect signal provided by an external paddlewheel flow sensor and or a pulsed signal provided by a pulse generator attached to a turbine meter. The controller can be set to initiate regeneration or alternation after a preset gallonage has passed through the softener system. This preset value is automatically re-set on initiation of regeneration. During normal operation the controller will provide gallons remaining readout for operator information.

NOVRAM

(Non-volatile random access memory) stores all programmed information and retains this information even without power. The 962 doesn't require reprogramming (except for current time) after a power outage.

Multiple initiation options

Regeneration may be initiated by one or more of these methods:

1. Manual start button on face of controller
2. Volume of water used—with regeneration occurring either immediately or delayed to a specific time of day (programmable)
3. Frequency - programmable number of days between regeneration with regeneration occurring at a specific time of day (programmable)
4. Day of week - regeneration on a specific day or days of the week with regeneration occurring at a specific time of day (programmable)
5. Delay start - an external contact closure that must be closed continuously for a programmed amount of time from 1-999 seconds. If released the delay time is re-initialized.

Relay and switch outputs

One (optional) DPDT relay output which is energized during regeneration is available at additional cost. In addition one additional DPDT switch contact is available which can be set to activate during any regeneration step.

User friendly programming

The front face keypad together with the 6 digit digital display and LED's combined with logical key sequences provide ease of use and programming. A password method has been provided to prevent unauthorized program changes.

Convenient to use

Its small size makes it easy to use. The controller mounts on the door of a six inch deep electrical box or control panel and the face panel seal is NEMA 4X

Three Models to Choose From Depending on the Application

Standard 4-Position Simplex Softener Controller

Model E948 electronic controller together with a Series 48 4-position 6-port multiport pilot stager is the standard simplex softener controller. One controller is required per tank but up to 3 controllers may be used together to control parallel simplex softeners. Inter-wiring of the controllers provides full lock-out (only one softener can be in regeneration at a time).

Alternate 5-Position Simplex Softener Controller

Model 951 electronic controller with a Series 51 5-position, 8 port multiport stager can be provided to operate a simplex softener system that has a automatic brine shut-off valve installed in the incoming brine line to isolate the flow of brine on a time basis in lieu of brine tank level. Generally used when source of brine is from common brine saturating storage silo.

Standard Duplex Alternating Softener Controller

Model E958 electronic controller together with a Series 58 4-position 16-port multiport pilot stager is the standard duplex softener controller. Only one controller is required control duplex alternating softeners, where one unit is in service and the other is in regeneration. On initiation of regeneration the exhausted softener is automatically taken out of service and placed in regeneration, while the standby unit is automatically placed on line in service. This provides a continuous flow of soft water to process without interruption for regeneration.

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