

ERcT Controller

NEMA 4/IP65 STYLE ENCLOSURE

Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure. The enclosure door must be kept tightly closed. Any modifications to this product (i.e. added holes for cable entry/mounting, conduit connections...etc.) may void the intended NEMA4/IP65 rating. NEMA 4/IP65 and UL rated fittings should be used when modifying the enclosure.



POWER LOSS MEMORY RETENTION

The ERcT Controller features battery-free time and date retention during the loss of power. This is designed to last a minimum of 8 hours depending on the installation. The controller will continue to keep time and day in dynamic memory while there is no AC power.

Information entered or calculated by the controller is stored in two different ways:

1. Static Memory:
 - Media volume
 - Regenerant setting
 - Time of regeneration
 - Days between regeneration
2. Dynamic Memory:
 - Current day of week
 - Running clock

ERcT PARAMETERS

Backwash Cycle	0-250 minutes
Regenerant Draw Cycle	0-250 minutes
Slow Rinse Cycle	0-250 minutes
Fast Rinse Cycle	0-250 minutes
Days between regeneration	0-99 days
Day of the week regeneration	Monday-Sunday
Remote regeneration Switch Delay	3-250 seconds

CAT417.2

ERC CONTROL SEQUENCES FOR RF AND MF SYSTEMS USING THE TASK MASTER III VALVE

SIMPLEX (-SX). Simplex systems shall have regeneration initiated by time of day or "clock time". SX systems shall have one mineral tank, one brine tank, one Task Master III™ control valve, one ERCt controller. To avoid shutting off the water during regeneration, simplex systems bypass hard water during regeneration. Ordering an optional shut off kit will prevent hard water bypass.

TWIN, TRIPLEX AND QUAD SEQUENTIAL (-TS, -TXS, -QS). In twin, triplex and quad sequential mode all units are in service unless a unit is in regeneration. The flow through all units is directed into a single meter. Once a predetermined amount of water has passed through the flow meter the ERCd initiates regeneration of the primary unit. When regeneration of the primary unit is complete, the ERCd sends an initiation to the ERCt on the secondary tank causing it to regenerate. When the secondary unit is regenerated the ERCt on this unit sends an initiation signal to the third unit. When the third unit is regenerated, a signal is sent to the fourth unit. Twin Sequential systems shall have two mineral tanks, two Task Master III™ control valves, two brine tanks, two brine lines, one ERCd controller, one ERCt controller, one PW, PWS or TM series flow meter, and two shut off kits. Triplex Sequential systems shall have three mineral tanks, three Task Master III™ control valves, two brine tanks, one brine director, one brine line, one ERCd controller, two ERCt controllers, one PW, PWS or TM series flow meter, and three shut off kits. Quad Sequential systems shall have four mineral tanks, four Task Master III™ control valves, two brine tanks, two brine directors, one ERCd controller, three ERCt controllers, one PW, PWS or TM series flow meter, and four shut off kits. An advantage of the sequential configuration is that the secondary units can operate independent of the primary unit. Regeneration initiation and meter display shall be provided by the ERCd. The ERCt controls the cycle times on the remaining vessels.

