

# Solv-Ultima™ 250 Auto-Change System

Safe & Consistent Dissolution & Mixing of Solid Concentrates for Large Systems



This automated mixing board is engineered for larger systems where a higher volume of available chemical is required or the interval between bottle-changing is less frequent.

◆ **Operation:** The system continuously checks conductivity of the incoming make-up water and compares it to the conductivity of the solution leaving the dissolving bowl. When the difference between the conductivity and the make-up water becomes zero, the system changes the spray to the other bowl. A positive difference between the conductivities is created and the system runs off of this bowl. This operation happens continuously – the system does not need to be shut down and reset, thus providing continuous, consistent water treatment chemicals to the system. As the system does not need to be reset, an empty bottle can be changed at any time.

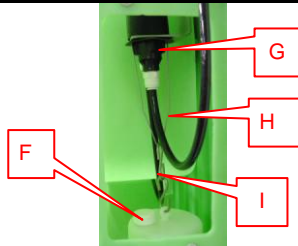
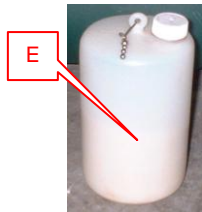
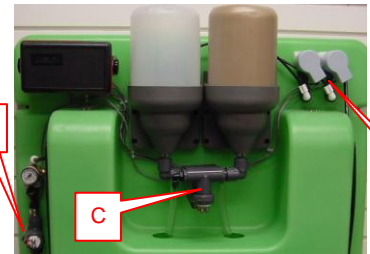
◆ **Float Weights:** When unit is activated, both solenoid valves open allowing water into the system, filling the reservoir with solution until the primary float is activated to turn off the primary valve. When the reservoir level drops due to chemical pump draw, the primary float activates the primary valve allowing water to spray into the bottle of chemical in the mixing bowl. Water erodes, dissolves, and mixes solid chemical concentrate which gravity-drains into the reservoir until the level builds and the primary float is activated. When primary float is activated, the primary valve closes & water flow stops.



## Electronic Controls & Sensors

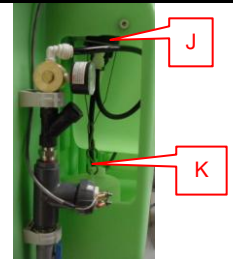
- A: Electronic changeover controller\*
- B: Conductivity sensor (make-up)
- C: Conductivity sensor (chemical)
- D: Changeover water solenoids

(\*Panel appearance may vary)

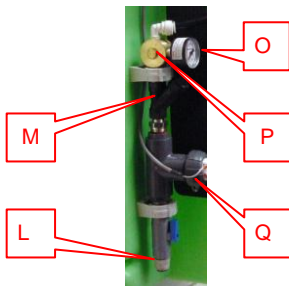


## Float Weights & Solenoids\*\*

- E: Float weight (2)
- F: Weight - Primary Float/Activate
- G: Solenoid- Primary Water
- H: Weight hook
- I: Weight connector (S-hook)
- J: Solenoid- Spill prevention
- K: Weight- Spill prevention

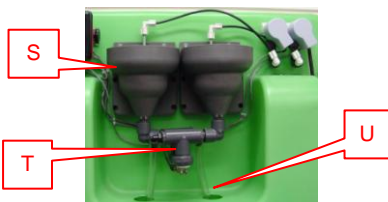
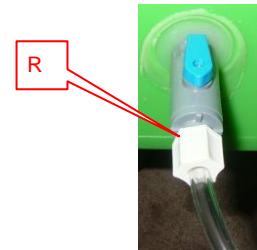


\*\*Patented Dual-Valve Safety System: Should the primary valve (G) remain stuck in the open position or if a leak-by occurs, the secondary float will activate, closing the second solenoid (J), thereby preventing any spills.



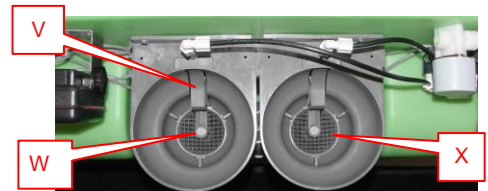
## Water Connections & Functions

- L: Incoming water fitting w/valve
- M: Mesh Y-Strainer
- N: Vacuum Breaker (Anti-Siphon/Backflow)
- O: Pressure gauge
- P: Pressure Regulator
- Q: Conductivity sensor (Make-Up water)
- R: Discharge to Chemical Pump (Suction-side)



## Mixing Bowls

- S: Molded mixing bowls (2)
- T: Conductivity sensor (chemical)
- U: Discharge tubing to reservoir
- V: Spray deactivation tab
- W: Spray nozzle cover
- X: Product retention screen



## System Specifications

Net Weight	35 #	Flow Rate	1.0 gpm
Ship Weight	40 #	Spray nozzle	90°
Dimensions	33" W x 30" H x 10" D	Mounting	6 anchor bolts
Water Line Requirement	3/8" Make-Up	Assembly & Install Time	15-20 minutes (approx.)
Water Pressure	40 psi	Electrical Requirements	110V AC

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