

## Capture H2O Model: HESDA-RPA 38 (ST) HIGH EFFICIENCY WATER PRE-TREATMENT SYSTEM

This System consists of Twin Fiberglass Ion Exchange Media Tanks, Alternating Regeneration, Metered Usage Controls, and Polyethylene Regenerate Tank. The system was specifically designed to reduce salt usage requirements by 30-50%, and waste less than 2% of treated volume for regeneration. This system will handle peak evaporation loads up to 38 GPM.

This HES model provides built in regeneration performance analysis (RPA), with remote monitoring and alarms for regenerate strength (elution study), water pressure, water usage, and power loss to permit proactive correction of upsets to insure performance and reliability.

### SYSTEM SPECIFICATIONS:

<b>Resin Exchange Tanks</b>	2 (Twin Alt.)	<b>Exchange Tank</b>	24"D x 72"H
<b>Valve Size</b>	2.0 inches	<b>Salt Tank**</b>	24"D x 50"H
<b>Service Flow</b>	38 GPM	<b>Shipping Weight</b>	1900 pounds
<b>Design Salt Use</b>	4 Lbs/ft <sup>3</sup>	<b>Salt Storage**</b>	800 pounds
<b>Salt Efficiency</b>	4500 GR/LB	<b>Salt Tank Oper Wt</b>	1300 pounds
<b>Hardness Removal</b>	216 KGR	<b>RET (2) Oper Wt</b>	2280 pounds
<b>RPA Monitoring</b>	Yes	<b>Elec. Requirements</b>	115VAC-50/60Hz
<b>Resin Service Port</b>	Yes	<b>Water Pressure</b>	60-90 psi

\*\* A salt silo or bulk brine maker may be labor and cost efficient for this model

### SYSTEM RELIABILITY AND PERFORMANCE ADVANTAGES:

- ✓ HES pre-treatment systems are specifically designed to maintain cooling tower water total hardness residuals at less than 30 mg/L at 100 makeup concentrations (COC) required for WCTI technology to optimize water use reduction and water chemistry performance.
- ✓ Redundant (dual alternating) exchange capacity, proprietary design and operation methods used by WCTI insure continuous soft water and low hardness leakage when treating water sources with high hardness or high TDS.
- ✓ HES design removes deposit forming hardness to very low levels with highly efficient salt use rates, while also providing capacity to handle peak variations in water hardness.
- ✓ Implementation of WCTI technology will provide utility savings, reduce maintenance, simplify treatment control and improve corrosion, scale and bio-fouling protection.
- ✓ HES equipment systems are serviced by licensed WCTI distributors who oversee the patented water chemistry, so equipment performance and technical support are assured

