

HYDROLOGY IONIC MINERAL SKID



- **ZERO WASTED WATER:** This system uses natural alkaline mineral resin and has a zero waste factor compared to an electrolysis system's 30% wastewater downside.
- **CAPACITY:** Up To 1,000,000 Gallons of 9 to 9.5 pH water per resin cycle (Depending On Speed Demand)
- **SPEED:** Up to 150 GPM (Adjustable Speed Rate 50 to 150 GPM of Alkaline Water)
- **ENCLOSURE:** Custom Double Side Door 20 Foot High Cube Container
with Roof Hatch and Jib for ease of changing resin (Hatch Not Shown)
- **STRUCTURE:** All custom vessels, piping, and fittings are made from 304 & 316 electropolished sanitary stainless steel with a mirror finish.
- **PUMPS:**
4 Programmable 3 & 5 HP Circulation Pumps
1 Custom Programmed Industrial Computerized Dosing Pump
- **SMART LOGIC:** Dual 22" Display Screens with Custom PLC system designed for data logging and online monitoring. High-Resolution HD camera system for visuals into tank levels, inside the cabin, and outside the perimeter. Logic toggle for manual and semi-auto operation.
- **COOLING:** Air-conditioned Cabin with sensor controls for instrument control panel cooling
- **UV DISINFECTING:** 3 Inline UV Disinfecting Units for self-cleaning
- **LIGHTING:** Perimeter manual or sensor-triggered lights
- **ROOF:** Custom Roof Hatch Doors with Jib and Electric Crane (Not Shown)
- **POWER:** 220 V 3 Phase 200 AMP Service. Enough power to run the process and reserve power for upgrades.
- **SAFETY:** Electrical logic built to surpass industrial safety codes with triple GFI water spill sensor for emergency shut-off. (System was designed to protect personnel and equipment.)
- **PROCESS INTEL:** Equipped with dual pH/ORP inline sensor, Dual TDS Meters, Dual temperature meters, digital pressure meters, and 3 flow rate meters for solid data backup. (System designed with redundancies for accuracy.)
- **OFFSITE CONTROL & MONITORING:** The system can be monitored remotely from anywhere in the world. (Option to Shut off and turn on pumps and instruments from your desktop, laptop, or mobile device.)
- **BATCHING & CHANGE OVER** Custom industrial reversible rinsing vac to make changing materials easier.
- **NOTE:** The system was built custom to be mobile for indoor or outdoor operation to mineralize purified water between 8 to 9.5 pH. This unit launched the Trader Joe's brand alkaline water among many others like Wholefoods, Sprouts, and a dozen other brands for the past five years. All inner vessels were built custom to fit in the small footprint: Square Tanks and interlocking alkaline resin reactor vessels form-fitted to a customized reinforced 20-foot high cube shipping container for ease of mobilization.