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H₂ HUBB Official Test Report

Product:

Name: UltraLux Water Machine

Company: UltraLux Health

Mfgr rated H₂ mg/L concentration: avg 1.30 mg/L (ppm)

Type: H₂ Water System

- PEM/SPE

Serial Number: 20230528-0052

Tester: Tywon Hubbard (TH)

Testing start date: 9/1/23

Completion date: 10/18/23

PERFORMANCE:

H₂ Dissolved Concentration Confirmation Test:

- **METHOD:**
- Municipal source water (used for the test): 10.3 pH, 277 TDS
- Water Temperature: 22.6 C/72.68F
- pH: The unit did not alter the pH of the water
- Drinking Water Dispensing Flow Rates:
 - RO: 1.5L/min
 - Filtered: 2.4L/min
- Test Location: 277 meters (909 ft elevation)
- Test Methodology: Titration: H₂Blue Test Reagent
- All mg/L Test Converted to SATP (water temp and pressure)
- Claimed H₂ mg/L: avg 1.30 mg/L and up 1.8 mg/L
- **H₂ mg/L (ppm) Concentration Test at SATP:**
 - **Avg mg/L (ppm) @ 25C:** ≈ 1.05 mg/L (ppm)
 - **Claimed Mfgr's H₂ mg/L (mg/min) Confirmed:** No
 - We managed to achieve test results ranging from 1.3~1.4 mg/L (ppm), although these results were inconsistent.
 - Despite not consistently reaching 1.3~1.8 mg/L (ppm), the H₂ water device successfully reached a high dissolved hydrogen concentration, surpassing [H₂HUBB mg/L and mg/day standards](#).

RO Filter Confirmation Test:

- **METHOD:**
- Municipal source water (used for the test): 10.3 pH, 277 TDS
- Water Temperature: 22.6 C/72.68F
- pH: The unit did not decrease the pH of the water
- RO Wastewater Percentage Test
- Chlorine (Cl₂) Contamination Test:
 - Orthotolidine Cl₂ reagent
 - JNW Cl₂ test strips.
- **RO Confirmation Results:**
 - **Drinking Water TDS:** ≤ 30 mg/L (ppm)
 - **Drinking Water pH:** ≈ 10 pH
- **Chlorine Contamination Test:**
 - Chlorine (Cl₂): None detected

PRODUCT ASSESSMENT:

Functionality:

- **Power:**
 - AC power cord: The entire system is powered on when the power cord is plugged in.
 - Faucet power cord: Connects digital faucet to the UltraLux hydrogen water system.
- **Digital Faucet:**
 - Lever: Allows the user to select UltraLux hydrogen water or filtered by either pushing the lever forward or pulling it downward.
 - **Display:**
 - TDS: Shows the total dissolved solid within the water in mg/L or ppm.
 - UL: Indicates hydrogen water is being produced.
 - FW: The display turns off, and no lights indicate the production of filtered water.
 - CF: Indicates the Composite Filter is being used.
 - RO: Indicates the Reverse Osmosis filter is being used.
- **UltraLux Display/Touch Control Panel**
 - **Controls:**
 - Select button: Allows the user to select which filter to reset CF or RO.
 - Reset button: Allows the user to reset the selected filter by long pressing for 10 seconds.
 - Flush: Allows the user to flush the system for 30 minutes by long pressing the button for 3-5 seconds.
 - **Display:**
 - Input TDS: Displays the source water TDS.
 - Output TDS: Displays the TDS of the being produced UL or FW.
 - **Notification Icons**
 - H₂: The blinking icon signifies hydrogen water is being produced.
 - RO: A solid white light indicates over 80% filter life, blinking denotes under 20%, and solid red means 0% filter life.
 - CF: A solid white light indicates over 80% filter life, blinking denotes under 20%, and solid red means 0% filter life.
 - UV: The icon blinks when UV-C is active during hydrogen water production.
 - Error: Shows white when the system is in use and will show red when there is an error.
 - Check the user manual to resolve the error issue.
- **Drain-line**
 - The drain line is positioned at the system's rear and should connect to the sink's drain pipe.

**Summary Report Only.
Not Full Test Report.**

Other testing and technical sections are not included out of respect and professional courtesy of the RPC.

H₂ Hubb LLC disclaimer: All tests conducted and test results produced by H₂ Hubb LLC have been done according to industry-accepted practices and standards. Nevertheless, these results may not necessarily reflect test results performed by manufacturers, suppliers or third-party labs. Our test results are independent of all other parties, and testing by other parties may produce different results. We understand that many variables are involved in testing, some of which are extremely difficult to control. These reports are not meant or intended for any other purpose but to uphold H₂ Hubb LLC business practices and to validate the reasons for our recommendations.

Approved by:

Tywon Hubbard CEO of H₂HUBB

