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H₂ HUBB Official Test Report

Product:

Name: The Best Hydrogen Water Inhalation Device

Company: The Best Hydrogen Water Company

Mfgr rated H₂ Output: 300 mL/min

Type: Pure H₂ Inhalation Device (99.99%/4N)

- PEM/SPE
- O₂ port supplied as well.

Model: OLV-450M

Tester: Tywon Hubbard (TH)

Testing start date: 3/14/23

Completion date: 3/23/23

PERFORMANCE:

H₂ mL/min Confirmation Test: VH600

- **METHODOLOGY:**
- Distilled Water (used for testing): 6.0 pH
- Water Temperature: 65~70F/ 18.3~21.1C
- Reservoir Vol Size: 2.5 L/2500 mL (max level indicator)
- H₂ output: 300 mL/min or 24.73 mg/min (@ SATP)
- Test Location: 277 meters (909 ft elevation)
- H₂ Flow Test: mL/min, normal timing for a breathing session
 - Test methodology: Gas Displacement
 - All measurements converted to SATP

H₂ Flow Rate at SATP:

- Device H₂ mL/min (mg/min) avg: ≈ 300 mL/min: converts: 24.73mg/min
- Claimed Mfgr's H₂ mL/min (mg/min) confirmed: Yes

H₂ Accessory Tests:

- **METHODOLOGY:**
- *Bubble H₂ water:*
 - Bubbling Session Time Frame: 5-10 minutes
 - H₂ Dissolution Method: 20 μm diffusion stone
- Distilled Water (used for testing): 6.0 pH
- Water Temperature: 65~70F/ 18.3~21C
- Water Container Vol Size: 0.5L or 500 mL
- pH: The unit did not increase the pH of the water
- Test Location: 277 meters (909 ft elevation)
- Test Methodology: Titration: H₂Blue Test Reagent
- All mg/L Concentration Test Converted to SATP (water temp and pressure)
- Predicted H₂ mg/L Concentration: 1.0~1.5 mg/L (post 5-10 minutes of bubbling)
- *H₂ Goggles:*
- Specialized Eye Massager (Hot/Cold function)
- Basic H₂ Goggles (Provided with H₂ inhalation unit)
 - Determined H₂ goggles volume size
 - Calculated time-frame for H₂ to purge and fill goggles.
- *H₂ Earpieces*

- Verify H₂ production through earpieces.

Bubbled H₂ mg/L (ppm) Concentration Test at SATP:

- 5-mins avg mg/L (ppm): \cong 1.14 mg/L (ppm)
- 10-mins avg mg/L (ppm): \cong 1.45 mg/L (ppm)
- Dissolved H₂ mg/L (ppm) range: 1.0~1.50 mg/L (ppm)
- Confirmed H₂ mg/L conc.: Yes

H₂ Goggles Test: (Both types)

- H₂ goggles vol size: 60 mL
- Purge and fill time-frame: 12 seconds
- Suggested session duration for therapeutic effects: 30-minutes

H₂ Earpieces

- H₂ production through earpieces: Yes.

PRODUCT ASSESSMENT:

Functionality:

- **Main master switch**
 - Located on the back of the system and provides power to the device.
 - Once the master switch is turned on, the green power light will glow signifying the device is on.
- **Display and control panel**
 - **Power on/off button**
 - Turns the system on and off.
 - **Start button**
 - Initiates electrolysis for hydrogen gas inhalation and the green work light will glow.
 - Tapping the start button will pause electrolysis for hydrogen gas inhalation when the system is in use.
 - **Session Time-frame buttons**
 - Timing (+): Increases the session time by 30 minutes initially then increases the session's time-frame by 1 hr intervals.
 - Timing (-): Decreases the session time by 30-minute intervals.
 - **Sleep button**
 - The sleep button will dim the display and distilled water reservoir lighting.
 - **Sleep button + Timing (+) button**
 - Increases the volume of the display voice.
 - **Sleep button + Timing (-) button**
 - Reduces the volume of the display voice.
 - Continual pressing of the "Timing (-) button" will turn the display voice off.
- **Reservoir (2.5L or 2500 mL)**
 - Requires 2.5 liters of distilled water (max level indicator).
- **H₂ port**
 - Delivers the H₂ gas production for H₂ inhalation or other applications.
- **O₂ port**
 - Delivers the O₂ gas production for H₂/O₂ inhalation or other applications.
- **Drain port/Drain fitting**
 - Allows you to drain the distilled water reservoir with a special fitting.

Reliability:

- **New: Yes**
 - Initial test results and evaluation are currently on the report. (see Overall Opinion)
- **3 months: N/A**
- **6 months: N/A**
- **1 year: N/A**
- **Reliability Summary**
 - N/A

PRODUCT SAFETY:

Safety Components:

- The system has 4 key safety mechanisms for ensuring the safety of the device.
 - Low water shortage protection
 - Protects cells from excessive heat (two cells)
 - Device tilt protection
 - May prevent damages or leaks
 - Internal Fans
 - May also aid in preventing overheating and prevents hydrogen gas build-up in case of leaks.
 - Large Heat Vents

- Prevents excessive heat in the system

- The system theoretically should only be combustible at the tip of the nasal cannula as the system produces >99% pure hydrogen gas.

As with all inhalation devices that produce pure hydrogen gas, care should be taken to avoid exposing the cannula tip to any source of ignition (such as an open flame or a spark) which could result in the combustion of the gas.

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's business practices and to validate the reasons for our recommendations.

Approved by:

Tywon Hubbard CEO of H₂HUBB

