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H₂HUBB Official Test Report

Product:

Name: VHLife 300 mL/min Hydrogen Health Machine.

Company: Vigorous Health Company Limited.

Type: 300 mL/min H₂ Inhalation Device

- Pure H₂ Inhalation (>99.999/5N)
 - PEM/SPE
- Hydrogen-rich water
 - Specialized hydrogen water bottle
 - High RPM mixing function to dissolve H₂

Model: OH-300

Serial Number: 0009

Tester: Tywon Hubbard (TH)

Testing start date: 7/24/2023

Completion date: 7/26/2023

PERFORMANCE:

H₂ mL/min Confirmation Test: OH-300

- **METHODOLOGY:**
- Distilled Water (used for testing): 6.0 pH
- Water Temperature: 65~70F/ 18.3~21.1C
- Reservoir Vol Size: 0.7 L/700 mL
- 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 breathing session
 - Test methodology: Gas Displacement
 - All measurements converted to SATP

H₂ mg/L Concentration Test: Specialized Hydrogen Water Bottle

- **METHODOLOGY:**
- Distilled Water (used for testing): 6.0 pH
- Water Temperature: 65~70F/ 18.3~21C
- Water bottle Vol Size: 0.6L or 600 mL (20.2 oz)
- pH: The unit did not increase the pH of the water
- Dissolution Session Time Frame: 120 seconds (2-minutes)
- 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)
- Claimed H₂ mg/L: Unstated

H₂ Flow Rate Test Results at SATP:

- **Device H₂ mL/min (mg/min) avg:** 309 mL/min: converts: 25.47 mg/min
- **Claimed Mfgr's H₂ mL/min (mg/min) confirmed:** Yes

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

- **2-mins avg mg/L (ppm):** ≈ 1.51 mg/L (ppm)
 - **Avg H₂ mg Dissolved in Designated Vol:**
 - **After 120 seconds:** 0.90 mg
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PRODUCT ASSESSMENT:

Functionality:

- **Power on/off button**
 - Turns the system on and off.
 - Activate the digital touch display
- **Operation interface**
 - *Filter use*: Displays filter usage time frame in the upper left corner of the display.
 - *Hours*: Displays the selected time frame for the H₂ inhalation session.
 - *Time*: Display the H₂ inhalation session time-frame (1hr, 2hr, 4hr, 8hr)
 - *Home*: Allows the user to return to the main menu.
 - *Pause*: Pauses the hydrogen production.
- **H₂ outlet port**
 - Connection port for H₂ gas inhalation.
- **O₂ outlet port**
 - Connection port to add O₂ gas to H₂ gas for oxyhydrogen inhalation.
- **Distilled water reservoir (700 mL)**
 - Requires distilled water only.
- **Reservoir filter cartridge**
 - Filters reservoir water to improve gas purity and should be replaced every 6 months.
- **Device notification**
 - **Low water**
 - Indicates the reservoir needs more water.
 - **Filter**
 - Notifies the user that the reservoir filter needs to be changed.
 - **Block**
 - Notifies the user that there is a gas blockage.
 - **Error**
 - Notifies the user of an error with the device. (check the user manual to resolve)
- **Specialized hydrogen water bottle**
 - 600 mL hydrogen water bottle with high rpm mixing/dissolution function.
 - *Power button*: Press the power button twice to activate the bottle.

PRODUCT SAFETY:

Safety Components:

- The system has 5 key safety mechanisms for improving the safety of the device.
 - Low water shortage protection
 - Prevent cell from excessive heat
 - Gas blockage protection
 - Prevents build-up of internal pressure or pressurized hydrogen gas.
 - Internal error notification
 - Notifies the user of an error with the device.
 - 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.

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Approved by: Tywon Hubbard

