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## H<sub>2</sub> HUBB Official Test Report

### Product:

**Name:** H<sub>2</sub>Life Brown's Gas therapy machine v4.0 (BG4)

**Model:** H<sub>2</sub>Life BG v4.0

**Company:** Hydrogen For Health

**Type:** Oxyhydrogen Inhalation Device (66%: H<sub>2</sub> / 33%: O<sub>2</sub>)

- Electrolytic Cell Type
  - No membrane

**Tester:** Tywon Hubbard (TH)

**Testing start date:** 8/29/22

**Completion date:** 9/2/22

### PERFORMANCE:

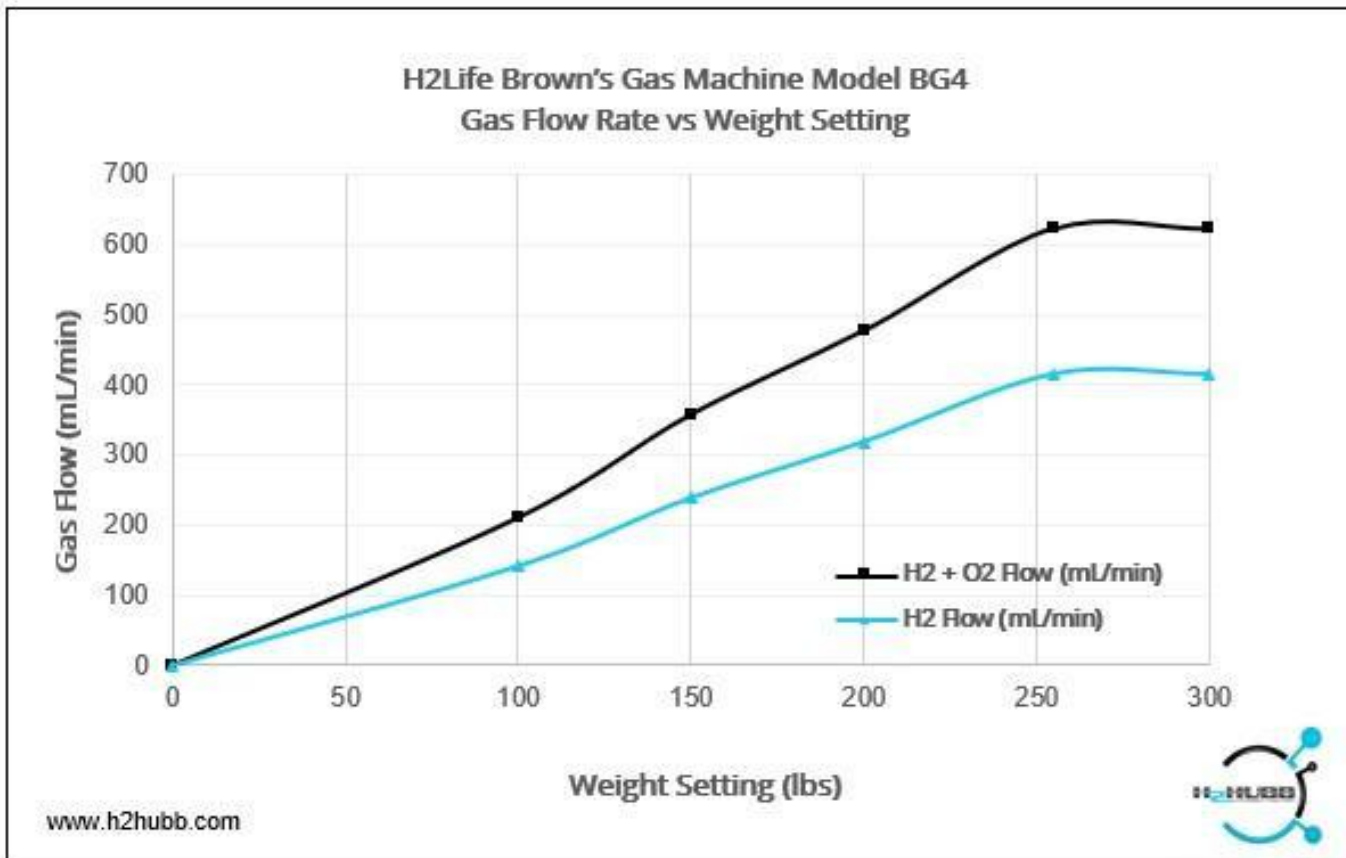
#### H<sub>2</sub> mL/min Confirmation Test:

- **METHODOLOGY:**
- Distilled water (used for testing): 5.55 pH
- Electrolysis Electrolyte: Sodium Hydroxide: NaOH  
5 g/1.3L (0.10 M/100 mmol or 0.38% solution)
- Water Temperature: 75~77F/ 23.8~25.0 C
- Electrolysis Reservoir Size: 1.3 Liters (1300 mL)
- Humidifier Reservoir Size: 0.6 Liter (600 mL)
- H<sub>2</sub> output: 100% Capacity: 396 mL/min or 32.64 mg/min (@ SATP)
- Test Location: 277 meters (909 ft elevation)
- H<sub>2</sub> Flow Test: mL/min, normal timing for a breathing session
  - Test methodology: Gas Displacement
  - All measurements converted to SATP
- Claimed Mfgr's H<sub>2</sub> mL/min (mg/min) confirmed: Yes
  - ≅ 415 mL/min or 34.21 mg/min (@ SATP)

#### H<sub>2</sub> Flow Test at SATP:

#### Graphing Data

| Weight<br>(lbs) | Hydroxy Flow<br>(mL/min) | H2 Flow<br>(mL/min) |
|-----------------|--------------------------|---------------------|
| 0               | 0                        | 0                   |
| 100             | 210.93                   | 141.39              |
| 150             | 358.01                   | 238.43              |
| 200             | 477.99                   | 318.34              |
| 255             | 623.13                   | 415.01              |
| 300             | 623.13                   | 415.01              |



## PRODUCT ASSESSMENT:

### Functionality:

- **Power Button/Digital-Touch Display Interface**
- **Power button**
  - Turns the system on.
- **Digital Touch Display**
  - **Start/Pause button**
  - Initiates electrolysis for hydrogen gas inhalation.
  - Initiates timing circuit (session time).
  - **Minutes +/-**
  - Sign (+): adds 30 mins to session time.
  - Sign (-): removes 10 mins from the session time.
  - **Weight**
  - Input body weight.
  - Dictates oxyhydrogen output flow rate.
  - The heavier the body weight the more oxyhydrogen is produced.
  - **Cell Temp**
  - Displays electrolytic cell temp.
  - **Maintenance Timer**
  - Displays a 200-hour countdown timer to alert the owner to maintain the device.
  - **Reset button**
  - Resets the 200-hour timer of the system after full maintenance.
  - **Dim**
  - Turns off the display panel and indication lights while the system is running.
- **Indicator lights**
  - Blue light: oxyhydrogen gas is being produced.
  - Red light: System in standby
- **Cell Reservoir**
  - Requires distilled water only (1.3 L reservoir)
  - Sodium hydroxide (NaOH) electrolyte is required for electrolysis.
  - Electrolyte has a molar concentration of 0.10M or a 0.38%.
    - 5g NaOH/1.3L of distilled water
  - Requires distilled water only (0.6 L reservoir)

- **Humidifier**

- Acts as filtration to ensure H<sub>2</sub> gas purity by removing any residual sodium hydroxide vapor from the oxyhydrogen gas.
- The humidifier may condition the gas to prevent nasal passage from becoming dry.

**PRODUCT SAFETY:**

**Safety Components:**

- The system has 7 key mechanisms for improving the safety of the device.
  - Maintenance notification
    - Notifies user to maintain the system every 200 hrs to ensure the safety of the user and the device.
  - High temp cell sensor
    - Prevents the cell from overheating.
  - Lower electrolyte concentration
    - Only requires a 0.38% solution of NaOH to operate properly.
  - Low-water protection
    - Prevents cell from excessive heat
    - Notifies the user to add more water to the cell reservoir.
  - Humidifier Reservoir
    - Prevents sodium hydroxide vapor from being administered with the production gas.
  - Back-flow protection
    - Acts as a back-flow preventer
  - Internal Fan
    - Prevents excessive heat in the system
    - Prevents hydrogen gas build-up in case of leaks.

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*Summary Report Only.  
Not Full Test Report.*

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

*H<sub>2</sub> Hubb LLC disclaimer: All tests conducted and test results produced by H<sub>2</sub> 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 H<sub>2</sub> Hubb LLC business practices and to validate the reasons for our recommendations.*

**Approved by: Tywon Hubbard**



Tywon Hubbard,  
CEO, H<sub>2</sub> HUBB LLC.

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