Hydrogen Water Testing & Certification

H2 Analytics
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Report # H2AR-250715-1

Laboratory Report

Product Tested

Two hydrogen bath machines were received for testing on 7/11/2025. The machines were not labeled and did not have a model number or serial number.

Tests Requested

Dissolved H_2

Test Equipment

Test water: tap; TDS: 461 ppm; ec: 922 µS/cm
Laboratory elevation: 864 meters (0.91 atm); all measurements adjusted to SATP
Test Equipment: SRI 8610C gas chromatograph, Torrance, CA, USA
Column: Hayesep-D 6M; temp: 60°C; Detector: TCD; Carrier gas: N_2 @20 PSI, 20 mL/min
Calibration: Performed on the day of testing using a saturated standard; test method: static headspace analysis
Meter, Temperature: Oakton pH6+ w/temp probe; Centrifuge, H2 Analytics H2A-TE-3001, 2400 rpm.

Test Method

Because the machines did not have a serial number or another unique identifier, temporary numbered labels were attached to each one. The supply and output hoses were connected, and the diffuser component was attached to the end of the output hose. The test container was filled with room-temperature water, and both hoses were submerged in the water. After the unit's rear-panel power switch was turned on, the hydrogen water flow was activated from the touch panel. The water was allowed to circulate for five minutes, after which a 2000 µL sample was drawn and injected into the headspace vial. The vial was inserted into the centrifuge and allowed to equilibrate for three minutes. A 1000 µL sample of the headspace was then drawn and injected into the GC for analysis. Three samples were measured and recorded, and the mean and standard deviation were calculated.

Results

Machine #1: Dissolved H_2: 3.03 mg/L (3030 ppb), SD: 0.27

Machine #2: Dissolved H_2: 3.15 mg/L (3150 ppb), SD: 0.22

INDEPENDENTLY TESTED
APPROVED
H2 ANALYTICS

RSSharpe

Approved By: Randy Sharpe, Director of Testing

Report Date: 7/15/2025