



H2 Analytics
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Report # H2A24020801

Laboratory Report

Product Tested

Echo Revive Bath Machine

Tests Requested

Warm & cold water tests: Dissolved H₂ vs time in the tub water and the water supplied by the machine.

Test Equipment

Test water: tap; starting temperatures: 44.2°C/111.6°F (warm), 12.4°C/54.3°F (cold); TDS: 586 ppm; ec: 1172 us/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: N₂ @20 PSI, 20 mL/min

Calibration: Performed on the day of testing using saturated standard; test method: static headspace analysis

Meter, Temperature: Oakton pH6+ w/temp probe

Test Method

Distilled water was added to the reservoir before testing. The supply hoses were connected and the intake filter cartridge was installed on the bathtub side of the input hose. A standard bathtub was filled with either warm water or cold water and the ends of both hoses were submerged in the water. The unit was then turned on, the timer was set to 15 minutes, and the hydrogen water flow was activated. After the pump purged the air from the system, the water flow was paused, the timer was set to 60 minutes, and the flow was started again. Dissolved hydrogen measurements of the water being supplied to the tub and the tub water itself, as well as the water temperature, were taken every 15 minutes. Each water sample was equilibrated in a headspace vial and then injected into the GC.

Results

Warm Water Tests			
Run Time (min)	Supply Water H ₂ Concentration (mg/L)	Tub Water H ₂ Concentration (mg/L)	Tub Water Temperature (°C)
15	2.30	1.02	42.4
30	2.88	1.60	41.1
45	3.06	1.87	39.8
60	2.82	2.22	38.7

Cold Water Tests			
Run Time (min)	Supply Water H ₂ Concentration (mg/L)	Tub Water H ₂ Concentration (mg/L)	Tub Water Temperature (°C)
15	2.58	1.03	12.9
30	2.56	1.40	13.2
45	2.81	2.31	13.6
60	2.80	2.48	14.0



RSS Sharpe

Approved By: Randy Sharpe, Director of Testing

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