



H2 Analytics
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Report # H2AR-250715-2

Laboratory Report

Product Tested

Three hydrogen inhalation 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

H₂ Flow Rate on three settings

Test Equipment

Laboratory elevation: 864 meters (0.91 atm); all measurements adjusted to SATP
Test Equipment: Mass flow meter, M-10SLPM-TFT, Alicat Scientific, Tucson, AZ

Test Method

Because the machines did not have a serial number or another unique identifier, temporary numbered labels were attached to each one. Distilled water was added to the reservoir before testing. A "Y" tube was connected to both H₂ output ports, the combined output was connected to the Alicat mass flow meter, and the H₂ flow rate was permitted to stabilize before being measured. The hydrogen flow rate was tested on the 900, 1350, and 1800 mL/min settings using a mass flow meter. Because each setting represents the *combined* flow rates of both the H₂ and the O₂, we should expect to measure the following H₂ flow rates for each of the following settings:

900 mL/min: H₂ = 600 mL/min; 1350 mL/min: H₂ = 900 mL/min; 1800 mL/min: H₂ = 1200 mL/min

Results

Machine 1: 900 mL/min setting: 610 mL/min; 1350 mL/min setting: 910 mL/min; 1800 mL/min: 1370 mL/min

Machine 2: 900 mL/min setting: 630 mL/min; 1350 mL/min setting: 980 mL/min; 1800 mL/min: 1480 mL/min

Machine 3: 900 mL/min setting: 650 mL/min; 1350 mL/min setting: 990 mL/min; 1800 mL/min: 1490 mL/min



RSS Sharpe

Approved By: Randy Sharpe, Director of Testing

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