

ALCOSIM™

Breath Alcohol Simulator



Easy and accurate calibration

ALCOSIM is the easy and accurate way to calibrate or check-calibrate breath alcohol testing instruments. Carefully maintaining an alcohol reference solution, ALCOSIM produces an air-alcohol sample of precise concentration.

How it works

The standard reference solution, an ethyl-alcohol concentration, is used to produce an air sample with an ethanol concentration. This sample is equivalent to the calibration set point of the breath alcohol testing instrument.

Equipped with a reference thermometer, ALCOSIM maintains the reference solution at mouth temperature ($+34\text{ °C} \pm 0.02\text{ °C}$) to simulate the density, composition and temperature of a human breath sample.

Certified reference material

Alcohol Reference Solution (ARS) is available upon request.

Easy to use

Once the green light indicates that ALCOSIM is at operating temperature, simply breathe into the inlet hose to produce an air-alcohol sample. The breath alcohol testing instrument compares this sample to the value of the chosen reference solution.

Quality construction

Medical-grade plastic and stainless are anti-corrosive and provide chemical resistance, while extensive internal sealing provides leak resistance. ALCOSIM is built for lifetime use.

Your safety, our promise

ISO 9001, IATF 16949, ISO 14001, ISO 17034 and ISO/IEC 17025 certified, ACS ensures high quality design and manufacturing of all products and services while balancing our respect for the environment. Our commitment to safety, quality and customer service defines our industry leadership.

Quality management certifications



Liquid level
500 mL



Inlet tube diameter
6.4 mm



Outlet tube diameter
6.4 mm



Time to ready
< 12 minutes



Recycle time
< 5 seconds



Accuracy
 $+34\text{ °C} \pm 0.02\text{ °C}$



Display
Graphic LCD



Operating temperature
 $+5\text{ °C}$ to $+30\text{ °C}$



Operating voltage
100 or 240 volt



Dimensions
227 mm x 130 mm



Weight
560 grams

ACS

ALCOHOL COUNTERMEASURE SYSTEMS

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Warranty. ACS products are warranted to be free from defects in workmanship and material for one year from the date of purchase. Only qualified technicians should perform maintenance on any breath alcohol testing products. ACS breath alcohol testers are designed to provide accurate test results when used with our certified mouthpieces. Compliance with product certification is dependent upon the use of ACS parts. Using a mouthpiece that is not produced by ACS may affect the product certification by causing inaccurate readings.

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