

SUPERIOR ACCURACY AND RELIABILITY IN A NEW COMPACT DESIGN



Fiske® 210 Micro-Sample Osmometer

When you need precise, rapid results from an extremely small sample, the only answer is the Fiske® 210 Micro-Sample Osmometer. The Fiske 210 continues our 50-year commitment to osmometry - a commitment that is well known to thousands of users around the world.

The Fiske® 210 freezing-point osmometer requires only a 20µL sample size, which provides accurate osmolality results in less than 90 seconds. For convenience, the fully accessible probe design is easy to clean and service. The Fiske 210 is not only your most reliable option, it's the easiest to use. Just pipet 20µL of sample into a disposable sample tube, then place the tube into the test chamber. Lower the probe into the sample and push the "Test" button. Results are displayed in ninety seconds.

Microprocessor control ensures repeatability and accuracy. The Fiske 210 calibrates automatically at the push of a button, with no user adjustments. Because calibration is highly stable, however, the procedure is seldom required. Self-diagnostics



alert the operator to any malfunctions or abnormal test conditions through messages on the display.

Since the Fiske 210 Osmometer doesn't use a liquid cooling bath, you'll have minimal routine maintenance. In fact, you don't have to worry about preventive maintenance, either. All these features save you costly operator labor and down time.

CLINICAL APPLICATIONS OF OSMOMETRY

Determine Osmol Gap – actual versus calculated osmolality is a rapid indicator for toxicology and trauma cases. Remember, only the freezing-point method is sensitive to alcohol and ketones.

Hydration Status for Athletes – weight class and endurance events are conducive to dehydration, with performance and health consequences.

Mannitol Treatment – maintain, without exceeding, critical level of therapeutic infusion.

Glycine Ingestion – monitor the absorption of irrigation fluids in surgical procedures.

Renal Function – evaluate concentrating ability and monitor ADH therapy.

Differentiate DKA and NKH – only a measured osmolality can make this determination and guide effective therapy.

Sample Authentication for Drug Screens – low urine osmolality is indicative of tampering.

EXCLUSIVE FEATURES OF THE FISKE 210 OSMOMETER

Alphanumeric display

Results, user prompts, and instrument diagnostics are clearly displayed.

Automatic calibration

No fine-tuning or user adjustments during calibration. The instrument's microprocessor automatically makes calibration adjustments at the push of a button.

Easy push-button operation

Requires minimum operator training.

Printer, RS232C and barcode scanner ports

A full range of data handling options are available. Unit connects easily to printer, computer and scanner.

Smallest sample size


Only 20 microliters of sample needed.

Solid-state cooling

The 210 has no liquid cooling bath; no maintenance required.



Sample Volume:20 μ L
Test Time:.....90 seconds per sample
Electrical:
Voltage:100 to 240 VAC
Frequency:.....50 or 60 Hz
Power:60 Watts
Memory backup:Integral lithium cell; ten years typical. Retains last 30 measurements.
Repeatability: \pm 2 mOsm/kg H₂O (1 S.D.) between 0 and 400 mOsm/kg H₂O;
 \pm 0.5% (1 S.D.) between 400 and 2000 mOsm/kg H₂O
Range:0 to 2000 mOsm/kg H₂O
Linearity:< 1% of straight line between calibration points of 50 and 850 mOsm.
Within 1.5% above 850 mOsm.
Drift:Less than 1 digit per month plus 1 digit for every 9°F or
5°C ambient temperature change.
Room Humidity:5 to 80% relative humidity, non-condensing
Dimensions:12.0"H x 12.0"W x 9.5"D (30.5cm x 30.5cm x 24.1cm)
Communications:DTE EIA-232/V.24 (RS-232), parallel printer, and optional barcode scanner.
Net Weight:.....13.6 lbs (6.2 kg)
Shipping Weight:20.5 lbs (9.1 kg)
Warranty:One-year limited warranty on workmanship and all parts except glass, plastic, and
parts warranted by their makers.

Certification:  

Specifications Subject to Change

In order to obtain peak performance and long life from your osmometer, ask about these related products:

Accuref™ 290 Reference routinely checks calibration stability.

Protinol® Near-Serum Reference, in 3 levels, gives added confidence in interlab surveys.

Linearity Set™ documents performance, per CLIA guidelines, over full instrument range.

Fiske® Calibration Standards and Sample Kits are manufactured to exacting tolerances to keep your osmometer operating in peak performance. Accept no substitute.

Fiske® 2400 Multi-Sample Osmometer tests up to 20 samples without supervision.



Available from:

Hot-Line® Technical Service

Fiske's Hot-Line® Service and worldwide distributor network provide comprehensive customer service and technical support.



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