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K-7400S Semi-Micro Osmometer

Freezing point osmometer

KNAUER is one of the pioneers in the field of osmometry and is known for their reliable and user-friendly instruments for many decades. Our newest freezing point K-7400S Semi-Micro Osmometer allows for the easy and fast determination of osmolality in various aqueous solutions. In addition, the freezing point depression of such samples can be measured. The proven technology of freezing point determination - in combination with the robust and intelligent design of the device - allows fast and reproducible measurements. The instrument is equipped with a Peltier cooler and an integrated microprocessor controlling the automated measurement. The K-7400S Osmometer is a standalone device that optionally can be equipped with a printer. Furthermore, the device can be controlled via the EuroOsmo 7400 software. The software automatically plots the temperature curve for each measurement/calibration, and allows saving of the measured values. In addition, the data can optionally be exported into various file formats for archival storage. The K-7400S Semi-Micro Osmometer complies with the European Pharmacopoeia for osmolality. (2.2.35,.01/2012).



K-7400S with measuring head in park position

ACCESSORIES & SPARE PARTS

 <p>Measuring head Measuring head for plastic sample tubes; compatible with the K-7400 and the K-7400S Semi-Micro Osmometer Article No.: A0840-2</p>	 <p>Plastic sample tubes, 100 pcs Plastic sample tubes for Semi-Micro Osmometer K-7400S, 100 pcs. Article No.: A02721</p>	 <p>Plastic sample tubes, 500 pcs Plastic sample tubes for Semi-Micro Osmometer K-7400S, 500 pcs. Article No.: A0272</p>	 <p>Plastic sample tubes, 1000 pcs Plastic sample tubes for Semi-Micro Osmometer K-7400S, 1000 pcs. Article No.: A0720</p>
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TECHNICAL DATA

Parameters

<u>Sample volume:</u>	50 - 150 μ L
<u>Osmolality range:</u>	0 - 2000 mOsmol/kg
<u>Resolution:</u>	osmolality: integer value (without decimal part, e.g. 850 mOsmol); temperature: value with three digits (e.g. -1.576 °C)
<u>Test time:</u>	~2 min
<u>Precision:</u>	SD \leq 4 mOsmol/kg [0 - 400 mOsmol/kg] RSD \leq 1 % [400 - 2000 mOsmol/kg]
<u>Linearity:</u>	\pm 1% [0 -1500 mOsmol/kg]; \pm 1.5 % [0 - 2000 mOsmol/kg]
<u>Calibration:</u>	Two-point Calibration (0 mOsmol/kg and one freely-selectable osmolality); (optional): Three-point Calibration (0 Osmol/kg and two freely-selectable osmolalities)

General

<u>Power supply:</u>	100 — 240 V, 50 — 60 Hz, 70 W
<u>Dimensions:</u>	160 x 182 x 340 mm (W xH x D)
<u>Weight:</u>	5.3 kg
<u>Ambient conditions:</u>	Temperature range: 10-35 °C Rel. humidity: 20-80 % (non-condensing)

Communication

<u>Interfaces:</u>	RS-232 port
<u>Control Keypad:</u>	LED display, 2 rows with 24 characters
<u>Optional:</u>	EuroOsmo7400 Software