

## OSMOMETRY

### Single-sample osmometer – OsmoSpecial 1

OsmoSpecial 1 is a single-sample semiautomatic osmometer for the quick and accurate analysis of osmolality in biological and pharmaceutical liquids or any other solutions, based on the cryoscopic point determination. The automatic reading and interpretation of the results occur when the sample temperature plateau is reached, according to all the international references.

#### Technical features:

- ✦ Capacity: single sample
- ✦ Visualization of the osmolality value and the freezing point
- ✦ Cooling system with electronically controlled Peltier cells
- ✦ No need of cooling liquid
- ✦ Forced ventilation
- ✦ Working room temperature: from +5°C to +36°C
- ✦ Automatic calibration
- ✦ Lash and agitation width adjustment controlled by software
- ✦ Results in mOsm/Kg units and °C
- ✦ Sample volume: from 50 to 200 µl (with disposable plastic tubes)
- ✦ Analysis time: about 3 minutes
- ✦ Instrument warm up time: 5 minutes
- ✦ Measurement range: from 0 to 1500 mOsm/Kg
- ✦ Resolution: 1 mOsm/Kg
- ✦ Repeatability and reproducibility:  $\pm 2$  mOsm/Kg (< 600 mOsm/Kg) or  $\pm 0,5\%$  (> 600 mOsm/Kg)
- ✦ Dimensions and weight: 285x380x450 mm (wxdxh) with head up - About 10 Kg.
- ✦ Power supply: 110/220 V – 50/60 Hz – 100 W



Code no. 68699	Single-sample osmometer - OsmoSpecial 1
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#### Accessories:

Code no. 63225	Check standard, 324 mOsm, 250 ml
Code no. STD2101	Calibration standard, 100 mOsm, 125 ml
Code no. STD2109	Calibration standard, 900 mOsm, 125 ml
Various codes	Calibration standard, various concentrations
Code no. 2030N	Disposable sample tubes, volume from 30 µl, 500 pieces
Code no. 563	100-place sample tubes holder, in plastic, for plastic tubes
Code no. 9042401009	Automatic micropipette, 10 – 100 µl adjustable volume
Code no. 9042401322	Automatic micropipette, 100 – 1,000 µl adjustable volume
Code no. 37460	Yellow disposable tips, 1,000 pieces
Code no. 37465	Blue disposable tips, 1,000 pieces

