

## CRYOSCOPY

### Single-sample cryoscope – CryoSmart 1

Automatic instrument for the quick determination of the freezing point variation in milk samples due to the presence of added water. Based on plateau reading, according to the recent FIL-IDF-ISO international regulation.

**Technical features:**

- ✦ Capacity: single sample
- ✦ Visualization of the freezing point and the added water percentage
- ✦ Cooling system with electronically controlled Peltier cells
- ✦ Automatic renewal of the cooling liquid by means of continuous recirculations
- ✦ Forced ventilation
- ✦ Working room temperature: from +5°C to +36°C
- ✦ Automatic calibration
- ✦ RS232 data exit – Optional thermal printer
- ✦ Software-piloted agitation and whip stroke
- ✦ Results in °C, °Hortvet and water% units, selectable by the user
- ✦ Sample volume: 2 - 2,5 ml
- ✦ Analysis time: about 2 minutes
- ✦ Instrument pre-heating time: 5 minutes
- ✦ Resolution: ± 0,0005 °C - Repeatability and reproducibility: ± 0,0025 °C
- ✦ Dimensions: 29x44x33 cm (wxdxh) with lowered head - Weight: about 13 Kg.
- ✦ Power supply: 220 V – 50 Hz – 150 W. Other voltages: upon request




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Code no. 67499      Single-sample cryoscope - CryoSmart 1

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**Accessories:**

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Code no. EP-50      EP-50 thermal printer

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Code no. 67219      Thermal paper roll for EP-50 printer

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### 20-sample automatic cryoscope – CryoSmart 20

CryoSmart 20 combines the superb performances of its single-sample version with the convenience of the 20-place autosampler carousel. Excellent for larger daily routines.

**Technical features:**

- ✦ Capacity: 20-place autosampler carousel
- ✦ Results are automatically visualized and printed, along with the sample numbers
- ✦ Provided with EP-50 thermal printer
- ✦ Dimensions: 29x44x33 cm (wxdxh), with lowered head
- ✦ Weight: about 19 kg.
- ✦ Other features: as for CryoSmart 1




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Code no. 67393      CryoSmart 20

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## 40-sample automatic cryoscope - CryoStyle 40

Automatic cryoscope with a 40-sample autosampler carousel for the quick and accurate determination of the freezing point variation on milk samples, due to the presence of added water. CryoStyle 40 applies the same excellent technology of the Cryobasic product range, by adding some innovative features such as the touch-screen display and the display visualization of the freezing temperature plateau achievement during the analysis. Ideal for high routinary charges. Supplied with a thermal printer.

### Technical features:

- ✦ Capacity: 40-place autosampler carousel
- ✦ Provided with EP-50 thermal printer
- ✦ Results are automatically visualized and printed, along with the sample number
- ✦ Touch-screen display to move along the user-friendly menu
- ✦ Real-time displayed graph creation of the freezing point achievement
- ✦ Dimensions: 32x57x30 cm (wxdxh) with lowered head - Weight: 16 Kg.
- ✦ Power supply: 220 V – 50 Hz - 200 W. Other voltages: upon request
- ✦ Other features: as for Cryobasic 1




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Code no. 67163      40-sample cryoscope – CryoStyle 40

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## 40-sample double-headed cryoscope - CryoStyle 40 Double

CryoStyle 40 Double cryoscope is the ideal solution to satisfy the highest needs for quick and accurate results in the determination of added water in milk: the double head allows the analysis of 2 samples at the same time and the innovative features of the CryoStyle product range get this instrument easier to use.

### Technical features:

- ✦ As for CryoStyle 40
- ✦ Auxiliary water circulation system to operate when room temperatures is  $> 27^{\circ}\text{C}$




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Code no. 67165      40-sample double-headed cryoscope – CryoStyle 40 Double

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## Standards and accessories for cryoscopes

This cryoscopy accessories and standards range has a high quality level and extremely competitive prices. All standards are lot-specific certified and have a long-term ensured shelf life. The calibrated sample tubes are manufactured in full agreement with the recent FIL-IDF-ISO cryoscopy international regulation. All this product range can be used on any cryoscope.



Code no. 67205	Calibrated cryoscopy glass tubes, 12 pieces
Code no. 2028	Calibrated cryoscopy disposable tubes, 100 pieces
Code no. 67251	24-place tube holder, in ABS
Code no. 67241	50-place tube holder, in stainless steel
Code no. 63220	Check standard for crioscopy 0,512°C, 250 ml
Code no. 63215	Calibration standard for cryoscopy 0,408°C, 250 ml
Code no. 63225	Calibration standard for crioscopy 0,600°C, 250 ml
Code no. 67210	Cooling liquid, 1.000 ml
Code no. 67200	Cooling liquid, 250 ml
Code no. 67226	Precision micropipette, 2/2,5 ml volume
Code no. 37470	Plastic disposable tips, 2/2,5 ml volume, 1.000 pieces

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