

Freezing Point Determination Device made by Funke-Gerber  
1000 times tried and tested - exact - robust - reliable

**FUNKE**  
**GERBER**

# CryoStar I

automatic cryoscope

Single sample device in accordance with reference method  
DIN/ISO/IDF 5764

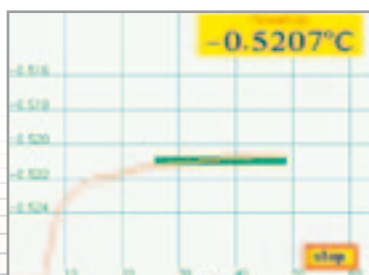


**With the Cryostar the freezing point of milk can be measured quickly and reliably.**

### Specifications:

- **Designed for the future, flexible:** Fixed time measurement, plateau and maximum search functions. You can freely program all relevant parameters. These will of course be recorded. And the CryoStar can also be set to conform with all national and international standards (including future ones).
- **Easy to use:** The operation is menu guided in the language of your choice. German, English, French, Greek, Italian, Polish, Spanish, Turkish and Hungarian are currently available.
- **Sure Performance:** The reliable cooling system ensures rapid operational readiness even in high-temperature environments (max. approx. 34°C).
- **Fast:** Depending on actual setting used, up to 40 samples can be measured per hour.
- **Versatile:** The CryoStar is equipped with a parallel connection (for standard printers) and can be connected to a PC using the serial interface. The necessary software is supplied with the device.
- **Handy:** The CryoStar is small, light and easy to handle. The percentage of added water content is directly displayed and printed. The calibration is carried out automatically. All settings and calibration values are retained in a non-volatile memory.

Кривая замораживания отображается на графическом дисплее во время измерения. Это позволяет найти температуру плато, согласно норме (DIN/ISO/IDF 5764), может быть профессионально контролировать и воспроизводить.



### Technical Data:

Supply:	230V/115 V AC (50...60 Hz), 180 VA
Measuring resolution:	0.0001°C ( 0.1 m°C )
Repeatability:	± 0.0020°C ( ± 2.0 m°C )
Measuring range:	0.0000°C to -1.5000°C
Sample volume:	2.0 ml to 2.5 ml
Sample rate:	up to 40/h typically 30/h
Interfaces:	1 x parallel, 1 x serial (RS232), USB
Cooling-off time:	approx. 15 Min.
Display:	graphic colour display of freezing curve, measurement result [°C], [% added water] date, time, measuring conditions
Record Print:	measurement result [°C], [% added water] date, time, measuring conditions

### CryoStar<sup>automatic</sup> Multi-sample machine

This device comes additionally equipped with a round magazine for 12 samples. It has a larger display. Other specifications are all identical to the CryoStar I single sample device. (see above).



Ordering Data/Name	Art. No.	Dimensions (W x D x H)	Weight (net)
CryoStar I (incl. software)	<b>7150</b>	29 x 38 x 19 cm	12.0 kg
CryoStar automatic (incl. printer and software)	<b>7160</b>	44 x 44 x 20 cm	14.6 kg

Accessories/Name	Art. No.	Name	Art. No.	Name	Art. No.
Thermo-record Printer	<b>7151</b>	Calibration Standard A (0.000°C)	<b>7165</b>	Calibration Standard C (-0,512°C)	<b>7188</b>
Replacement Thermistor	<b>7152</b>	Calibration Standard A (-0.408°C)	<b>7186</b>	Automatic-Pipette, 2 ml	<b>7174</b>
Sample Vials (50 units.)	<b>7167</b>	Calibration Standard B (-0.557°C)	<b>7166</b>	Pipette Tips	<b>7175</b>
Cooling bath fluid, 500 ml	<b>7169</b>	Calibration Standard B (-0.600°C)	<b>7187</b>		

