

# DESIGNED TO EFFICIENTLY TEST LARGE NUMBERS OF MILK SAMPLES FOR ADDED WATER-EASILY, ACCURATELY AND RELIABLY

The Advanced™ 4C3 Multi-Sample Cryoscope uses the preferred freezing-point method to precisely determine the amount of added water in milk. The Advanced 4C3 offers unique continuous throughput for maximum efficiency in large-volume testing.

Batch testing is also efficient with the 4C3; samples can be prepared in advance and loaded into sample cassettes. When ready to begin testing, an operator can load up to four sample cassettes (holding up to 40 samples) into the cryoscope, press Start and walk away. The instrument automatically tests each sample in turn and records the results; keeping your cryoscope and operator working at peak efficiency.

- The 4C3 offers an optional barcode scanner to automate positive sample identification and eliminate test result transcription errors.
- The 4C3 is microprocessor-controlled for simple, push-button operation. Extensive self-diagnostic and troubleshooting prompts keep you up and running.

## Superior Results

The Advanced 4C3 freezing-point technology complies with both the International reference and screening method; delivering precise, accurate, repeatable and reliable results.

## Positive Sample Identification

Available printer and RS232 ports from which, date, time, sample ID and test result can be reported.

## Operator-selectable Options

Standard design includes m°C or m°H scales, timed plateau or plateau seeking modes, and four language prompts.

## Hot-Line® Service

Advanced Instruments Hot-Line Service and worldwide dealer network provide comprehensive customer service and technical support.

## Calibration Ease

Simply load the calibration samples into the specially coded calibration cassette and calibration is automatically triggered to run unattended.

## Fast Testing, Fully Automated

With the unique dual-stage, solid-state cooling assembly, testing can begin immediately. You don't waste time waiting for your instrument to cool down.

## Rewarding

The capacity of the 4C3 allows your lab to efficiently test and manage supplied milk in order to properly compensate producers, ensure quality products and profitable returns.



**ADVANCED  
INSTRUMENTS, INC.**

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# ADVANCED 4C3 MULTI-SAMPLE CRYOSCOPE





The 4C3's specially-designed cassettes move samples into position for automatic testing.

### Advanced 4C3 Multi-Sample Cryoscope Specifications

Sample Size	2.0 to 2.5mL
Sample Capacity	Holds up to 4 (four) cassettes
Readout	20-character digital display and on-board thermal printer
Units	m°C or m°H
Range	0 to -1000 m°C or m°H
Linearity	Typically within $\pm 0.5\%$ (straight line method)
Resolution	$\pm 1$ m°C or m°H
Repeatability	$\pm 2$ m°C (1 S.D.)
Power Requirement	100 to 130 V(60Hz) or 200 to 250 V(50 Hz)
Power Consumption	350 W
Dimensions	21.5"H x 21.5"W x 20"D (55cmH x 55cmW x 51cmD)
Net Weight	55 lbs. (25 kg)
Shipping Weight	75 lbs. (34 kg)
Storage Temperature	-40 to +158°F (-40 to +70°C)
Operating Temperature	64 to 95°F (18 to 35°C)
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% R.H., non-condensing
Sample Throughput	Approximately 40 samples per hour in the 30-second plateau mode at an ambient temperature of 23°C. Increase in ambient temperature will result in decrease of sample throughput.
Warranty	One-year limited warranty on workmanship and all parts except glass, plastic, and parts warranted by their makers.
Certification	  The management system governing the manufacturing of this product is ISO 9001 and ISO 13485 registered.

**Other cryoscope available:**  
Advanced Model 4250 Cryoscope

**Hot-Line® Technical Service**  
Advanced Instruments Hot-Line® Service and worldwide dealer network provide comprehensive customer service and technical support.

For more information on the Advanced Instruments family of tests, please call:  
800-225-4034

Available from:



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