

Combination Models

Bentley combination models are available in many different configurations to meet the needs of any testing facility. The result is significantly improved laboratory efficiency and faster sample analysis.

By simultaneously analyzing somatic cell, fat, protein, lactose and solids content these models are capable of delivering a comprehensive range of data on each sample.

Bentley 2000 - Somacount 300 Combi

The Bentley 2000 and the Somacount 300 can be connected to form a combination system offering simultaneous infrared and somatic cell count analysis. This combination analyzes up to 300 samples per hour.

Bentley 2000 - Somacount 500 Combi

This combination is ideal for large laboratories that need the ultimate in speed and efficiency. The Bentley 2000 - Somacount 500 Combi model will analyze in excess of 450 samples per hour for somatic cell counts, while simultaneously analyzing fat, protein, lactose and solids content.

Service and Support

Delivering a superior level of customer support has always been a top priority at Bentley Instruments. We understand the importance of making sure your laboratory is producing results, 24 hours a day, seven days a week.

From onsite training and installation to long term technical support, our experienced staff of engineers is there to help you maintain the highest level of productivity.

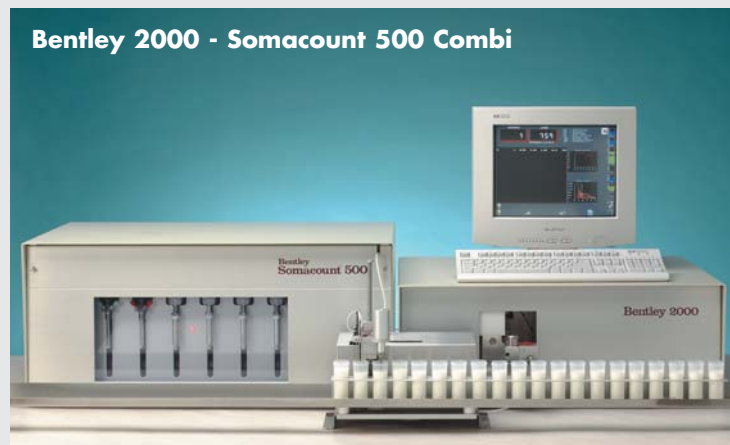
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Somacount Specifications*

	300	500
Measurement Range:	0 - 10 (M/ml)	
Repeatability:	< 5.0% C _V	
Accuracy:	(100k to 5M) Within 10% typically	
Speed:	300 per hour	500 per hour
Correlation To DMSCC:	> 0.96	
Work Factor:	< 150	
Electrical: Input Voltage:	115/230 VAC	115/230 VAC
Mains Frequency:	60/50 Hz	60/50 Hz
Power Used:	425 VA Max.	600 VA Max.
Dimensions:		
Width:	66.0 cm	79.0 cm
Depth:	55.0 cm	57.0 cm
Height:	38.0 cm	39.0 cm
Weight:	47.7 kg	57.8 kg
Fluid Use:		
Milk:	3.5 cc/test	3.5 cc/test
Ethidium Bromide:	0.083 mg/test	0.083 mg/test
Buffer Solution:	3 cc/test	3 cc/test
2% RBS Solution:	.25 Liter/hour	.5 Liter/hour

*Specifications for typical raw milk samples.

Somacount™ 300 & 500

High Speed, Precision Somatic Cell Counting Instruments

The Somacount instruments utilize state of the art technologies to deliver highly accurate somatic cell counts. They are designed for reliability, ease of use and precision measurements.

The high processing speed of these models make them the ideal solution for mid to large size laboratories that need an easy to maintain somatic cell counting system.

- Capable of analyzing 300 - 500 samples per hour
- Use of a standard computer offers flexible data output options
- Fully automatic autosampler analysis
- Low maintenance design

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*Analytical
Instruments For
The Dairy Industry*



Somacount 300

Technical Overview & Principle of Operation

The Somacount 300 and 500 use a proprietary process based on the principle of laser based flow cytometry to determine the somatic cell counts within a milk sample.

- ◆ A milk sample is taken automatically and mixed with a fluorescent dye solution.
- ◆ This dye disperses the fat globules and stains the DNA in the somatic cells.
- ◆ An aliquot part of the stained suspension is injected into a laminar stream of carrier fluid.
- ◆ The somatic cells are separated by the stream and exposed to a laser beam.
- ◆ As the stained cells pass through the excitation source, (laser beam) they fluoresce.

Through a series of lenses, the fluorescent pulses are focused onto a photo multiplier tube, where they are converted into electrical pulses.

- ◆ Using a process known as pulse height analysis, the pulses are sorted, counted and translated into a somatic cell count.
- ◆ The software allows for a wide variety of data output options, including diskette, serial, parallel and network connections which can be easily formatted to fit into existing systems.
- ◆ Operator friendly software with graphic user interface (GUI) help make the system easy to operate.
- ◆ The Somacount 300 and 500 meet the requirements of IDF standards for Somatic Cell Counting. AOAC approved methodology.

Somacount 300 & 500: High Volume Instruments That Deliver Exceptional Precision

Somacount 300

This mid-range system is ideal for laboratories that need a precision instrument that can analyze up to 300 samples per hour.

Somacount 500

For laboratories that need the ultimate in speed, precision and reliability, the Somacount 500 is the ideal solution. It uses two individual cytometry modules that act as a "fail safe" system for the instrument. Should a problem arise that in the past would have forced an instrument to be shut down for maintenance the operator simply shuts down half of the instrument, continuing to test samples at a reduced speed of up to 300 samples/hour.



Innovative Design

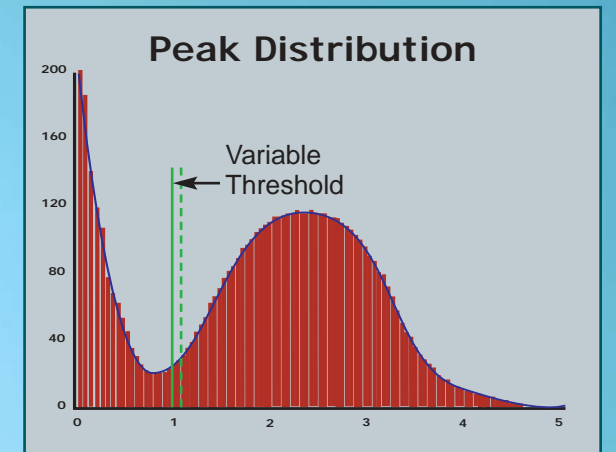
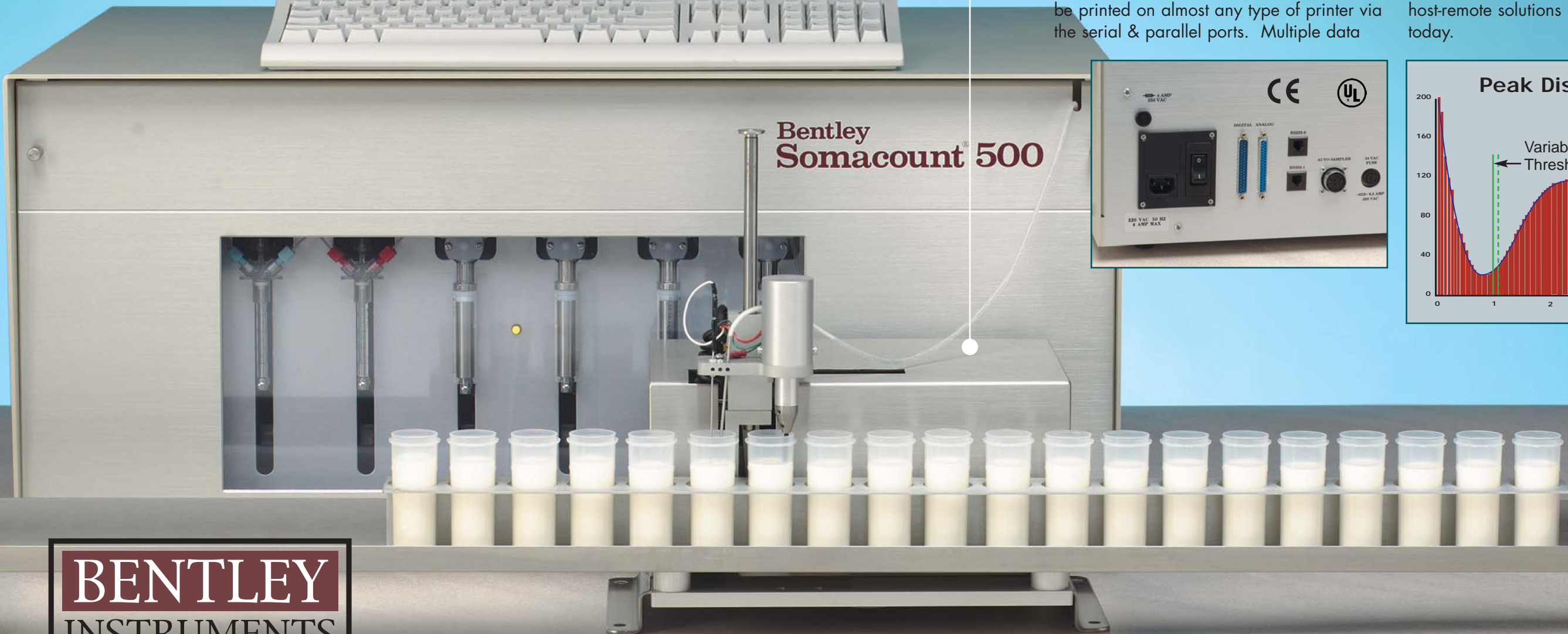
- ◆ Standard computer and compact designs require little work space, making it ideal for even the smallest laboratories.
- ◆ Proprietary analysis process based on laser flow cytometer delivers precision results, even at low cell counts.
- ◆ Low work factor leads to increased accuracy.
- ◆ State-of-the-art design utilizes few moving parts, resulting in a highly reliable instruments that are easy to maintain.

Automated Sample Input

- ◆ The automated sample device allows the Somacount 300 and 500 to deliver a complete and highly automated lab procedure, where the work process is easily incorporated into the routine.
- ◆ Optional bar-code readers can be attached to the input tray for automatic sample identification.

Data Output To Screen, Printer or Network

Data from the Somacount 300 and 500 can be printed on almost any type of printer via the serial & parallel ports. Multiple data output options support most of the standard host-remote solutions used in the industry today.



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