



# Fossomatic™ 7 DC

## Somatic cell counting for raw milk testing



ANALYTICS BEYOND MEASURE

### Offer better service with total and differential somatic cell counting

The world's first high-throughput analyser for simultaneous differential somatic cell count and total somatic cell count allows you to expand your service offering by giving farmers more sophisticated data for improved mastitis management.

### 7th generation technology improves operations

The 7<sup>th</sup> generation of the proven Fossomatic™ testing platform, the Fossomatic™ 7 DC includes new design features for easier maintenance and cleaning and reduced costs of operation. With a low working factor of 150 you can rely on the repeatability of results over time. The modular design makes periodic maintenance quicker and a sample conveyor without need for compressed air allows effective cleaning at the end of a shift. You can choose manual or automatic reagent mixing and rinse liquid can be refilled without having to stop the instrument.

### More results with less man hours

The latest in networking software allows effective control of multiple instruments from a single desktop saving time and ensuring identical performance across instrument units regardless of location.

#### Sample type

SCC: Raw milk (cow) DSCC: Raw milk (cow)

#### Parameters

Somatic Cell Count (SCC) & Differential Somatic Cell Count (DSCC)

#### Technology

Flow cytometry

# Specifications

Performance		
Measuring range	0 – 10 mill cells/ml	
Performance range	SCC and DSCSS 50K – 1.5 mill	
Repeatability*	CV < 8% 50-99k SCC/ml CV < 6% 100-299k SCC/ml CV < 4% 300-499k SCC/ml CV < 3% 500-1500k SCC/ml	DSCC Sd < 5,6% at 50K SCC Sd < 3,0% at 100K SCC
Accuracy	< 10% relative mean diff. from DMSCC (Direct Microscopic Somatic Cell Count)	
Carry-over	< 1% relative	
Sample types	Cow's milk	

\*CV = Coefficient of variation (STDev/AVG) x 100. (STDev = Standard deviation. AVG = Average)

## Application data

Sample handling	<ul style="list-style-type: none"> <li>· Unpreserved raw milk must be fresh and less than 4 days old</li> <li>· Preserved samples must be less than 5 days old</li> <li>· Preservative: Bronopol</li> <li>· Storage: Milk samples should be stored at 2-6 °C. During transportation the temperature of preserved samples may rise to room temperature (~25 °C)</li> </ul>
Analysis Capacity	100, 200, 300, 400, 500, or 600 samples per hour
Sample intake	2.5 ml (programmable 2.0 – 5.0 ml)
Working factor	150

## Standards and approvals

- Fossomatic™ 7 DC is CE-labelled and complies with the following directives and regulations:
- EMC (ElectroMagnetic Compatibility) Directive 2014/30/EU
- LVD (Low Voltage) Directive 2014/35/EU
- Machinery Safety Directive 2006/42/EC
- Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixture, CLP (EC)
- WEEE Directive 2012/19/EU
- Packaging and packaging waste Directive 94/62/EC
- REACH 1907/2006/EC

## Fossomatic technology complies with:

- AOAC
- ISO 13366-2 / IDF 148-2:2006
- Laser approval (FDA), IEC 60825-1
- EURL/Microval (validation pending)
- FDA NCIMS (validation pending)

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