

Technical Specifications



Performance Data	
Principle	Fluorescent cell labelling and automated flow cytometry Detection and counting of viable micro-organisms on a cell to cell basis after labelling of targeted micro-organisms with a specific fluorescent dye
Sensitivity of detection	Down to 50 micro-organisms per ml – Depending on sample volume analysed
Linearity	Up to 10 ⁵ viable micro-organisms per ml (no dilution needed below 10 ⁵ cells/ml)
Sample Capacity	Up to 25 samples per batch (including controls)
Sample Throughput	Up to 25 samples per hour, depending on applications
Calibration	Ready to use calibration solution – Fluorescent beads
Internal Standard	Integrated standard solution for individual sample result validation



400-D0263-03 April 2013 Page 1 of 2



Instrument

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Flow Cytometer (Analyser)	
Laser Unit	Optically pumped semiconductor laser
	488 nm excitation wavelength
Flow cell	Quartz flow cell – Channel section 300x200
Detectors	Detection wavelength 500-530 nm for labelled cells
Flatific	Detection wavelength 540-α nm for particle discrimination
Fluidic	2 syringe pumps for cleaning and sheath solution
Sample Volume analysed Sample Flow rate	Programmable from 50 µl to 400 µl
Counting time	Programmable from 10 µl/min to 500 µl/min Application dependent – From less than 30 sec. to 2 min.
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Flow system cleaning	Automatic cleaning between samples with cleaning solution Volume programmable
Dimensions (W x D x H)	71 x 17 x 45 cm
Sample Preparation Unit	
Template	1arm - 2 syringes pumps - 2 membrane pumps Temperature controlled incubation rack and cooling rack
Incubation Temperature	30°C and 40°C
Dimensions (W x D x H)	55 x 66 x 66 cm
Computer / Peripherals	
Minimum Configuration	Pentium IV or higher, 2 GB RAM / 320 GB hard disk or higher
Peripherals	CD-ROM writer, flat monitor, Printer,
	Specific board for data capture and treatment
Operating system	Windows 7 pro
Data Handling	
Application setting	Preloaded analytical applications
Sample identification	Dedicated table to enter sample information
Results data	Quantitative data and qualitative data with 3 colour codes in function
Data traceability	of the contamination levels 21 CFR Part 11 compliance
Data traceability	Storage on Hard disk for full traceability
Data output	Network capability, USB, CD/DVD writer
Installation Requirements	
Electrical	100 - 240 Volts 50/60 Hz - Operates on single-phase grounded power line – On line UPS recommended
Footprint system	180 cm x 70 cm
Ambient temperature	18 – 30°C
Ambient humidity	5 to 80 %

