

Product Fact Sheet

CyFlow[®] Cube 8_N1

Product Picture



Product name

CyFlow[®] Cube 8 with configuration N1

Manufacturer information

The CyFlow[®] Cube 8 is manufactured by Sysmex Partec GmbH.

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Sysmex Partec is an ISO 9001:2008 and ISO 13485:2012 certified company.

Summary

The CyFlow[®] Cube 8_N1 is a compact bench-top flow cytometer for analysis of single cells and microscopic particles. The CyFlow[®] Cube 8_N1 offers the unique combination of a truly stand-alone system with a small footprint and a blue and red laser configuration with 6 colours (FITC, PE, PerCP-Cy5.5, PE-Cy7, APC and APC-Cy7). The Cube 8_N1 is our optimized configuration for immunophenotyping applications. The easy-to-use CyFlow[®] Software provides instrument control, data acquisition and data analysis. Furthermore CyFlow[®] Cube 8_N1 offers the True Volumetric Absolute Counting (TVAC) feature which allows displaying of particle concentrations for any subsets of cells without the need of reference beads.

Productivity values

High-performance, bench-top design with fully-integrated fluidics, built-in PC and a 19" TFT monitor with two light sources (488nm laser and 640nm laser) and 8 optical parameters (FSC, SSC, FL1-FL6).

Main features of CyFlow[®] Cube 8_N1

- ✓ Configuration with 8 optical parameters (FSC, SSC, FL1-FL6) optimized for FITC, PE, PerCP-Cy5.5 or Pe-Cy5, PE-Cy7, APC and APC-Cy7 detection
- ✓ Particle size: 0.1 – 100 µm
- ✓ Fluorescence resolution: CV ≤ 2%
- ✓ Maximum acquisition rate 15.000 particles/s
- ✓ Automatic absolute counting by electrodes (TVAC) and syringe controlled volumetric counting
- ✓ Optional CyFlow[®] Robby 8 Autoloading Station for well plates and tubes
- ✓ Start-up time < 5min
- ✓ Easy to use acquisition and analysis software

Specifications

Feature	Description
Parameters	<ul style="list-style-type: none"> • 8 optical parameters (6 colours + FSC & SSC)
Light Sources	<ul style="list-style-type: none"> • 2 light sources • Blue laser: 50mW @488nm • Red laser: 40mW @640nm <p>Minor variations from nominal emission wavelength of violet and red laser diodes may occur due to normal production tolerances.</p>
Optics	<ul style="list-style-type: none"> • optical system with selected PMTs with integrated electronic preamplifier for FSC, SSC, FL1-FL6 • optimized optical filters for antibody panels with FITC, PE, PerCP-Cy5.5/Pe-Cy5, Pe-Cy7, APC and APC-Cy7 fluorophores • Standard objective mount with high numerical aperture • Separated intermediate image planes for optimized spatial filtering by diaphragms
Flow System	<ul style="list-style-type: none"> • Quartz flow cuvette for laminar sample transport and hydrodynamic focussing • Completely closed and integrated fluidic system • Sample port with biosafety cleaning system



	<ul style="list-style-type: none"> • True Volumetric Absolute Counting based on mechanical volume measurement • Computer controlled precision syringe pump for sample transport, speed continuously adjustable from 0-20 µl/s • Easily accessible sheath fluid and waste reservoirs with fluid level sensors
Electronics	<ul style="list-style-type: none"> • Parallel signal processing for each optical channel • Single and multiple trigger on any parameter or combination of parameters • Individual threshold level settings • 16 bit analog-to-digital converters
Computer	<ul style="list-style-type: none"> • Built-in Windows™ PC • Microsoft Windows™ 7 professional 64-bit operating system • Integrated 19" TFT LCD display • Dual screen setup (optional) • Keyboard, mouse • 4 USB ports • GB Ethernet connection • Printer (optional)
Software	<ul style="list-style-type: none"> • Windows™ based FCM software "CyFlow® Software" for data acquisition and data analysis • Guided prime and shut down procedures • Easy experimental template set up • Flow cytometry standard file format for storage of original and evaluated data • Automated data storage and indexing • Variable 1-parameter histograms and 2 parameter dot plots • 1 — 1024 channels resolution • Time parameter • Selectable linear scale, logarithmic or v-log scale • Software-based lin/log transformation • Analysis pre-selectable on

	<p>time, number of events or sample volume</p> <ul style="list-style-type: none"> • Multi parameter online/offline crosstalk compensation • Multi parameter colour gating and gate equation • Wizard for compensation, overlay- and report construction • Easy drag-and-drop compensation function • Panel management • User management with Audit Log
Dimension	<ul style="list-style-type: none"> • L 500 mm x W 470 mm x H 370 mm • with Autoloading Station: L 840 mm
Weight	<ul style="list-style-type: none"> • Approx. 40kg
QC functions	<ul style="list-style-type: none"> • Control of instrument operation
Interface	<ul style="list-style-type: none"> • USB, LAN, Video Output
Operative temperature	<ul style="list-style-type: none"> • 15-30°C
Operative humidity	<ul style="list-style-type: none"> • 20-85%, non-condensing
Noise	<ul style="list-style-type: none"> • < 70dBA
Electrical Specification	<ul style="list-style-type: none"> • 2/II
Nominal voltage	<ul style="list-style-type: none"> • 100 – 240 VAC
Power consumption	<ul style="list-style-type: none"> • 200 VA

Optional configurations	Description
Standalone	
With CyFlow® Robby 8 Autoloading Station	Autoloading station for 48-well-plates, 96-well-plates or 2ml tubes

Article number

Article no.	Item	Description
CY-S-3068R_N1	CyFlow® Cube 8	Consisting of: CyFlow® Cube 8 488nm-50mW-6P 640nm-40mW-2P
CY-S-3080-8	CyFlow® Robby 8 Autoloading Station	

This product is intended 'For Research Use Only' (RUO).



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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