

WOLF G2 Specifications

Fluidics	
Sample input	1.5, 2.0, and 5.0 mL tubes
Sheath input	50 mL conical tubes
Sheath fluid	PBS or buffer of choice
Sheath fluid usage	9.6 mL/hour
Sample flow rate	24 μ L/minute
Sheath flow rate	160 μ L/minute
Sample line volume	50 μ L
Minimum sample volume	100 μ L
Tubing diameter (inner)	200 to 500 μ m
Flow cell	200 x 70 μ m
Smaller channel diameter	70 μ m
Sample pressure	< 2 psi
Sample output (bulk sorting)	1.5 mL or 5 mL tubes
Sample output (single cell)	96- or 384-well plates (flat/U/V bottom or PCR)

N1 Plate sorting specifications	
Time to plate (96 wells)	3 - 8 minutes
Time to plate (384 wells)	32 minutes
Droplet volume	3 - 10 μ L
Sample plate options	96 or 384 well (flat bottom, V-bottom, U-bottom, PCR)

Optics	
Laser Profile	20 x 90 μ m
Scatter detection	Forward (0 degrees, +/- 15) Back (180 degrees, +/- 15)
Excitation & emission detection	See WOLF G2 Configuration Guide
Optical alignment	Fixed alignment, no maintenance required

Performance	
Scatter sensitivity	< 1.5 μ m by FSC or BSC
Scatter resolution	Resolves lymphocytes, monocytes, and granulocytes
Fluorescence sensitivity	< 200 MESF FITC (using 488 nm laser) < 250 MESF PE (using 561 nm laser)
Fluorescence resolution	9-peak separation with SPHERO™ Rainbow Calibration Particles
Analysis speed	2,000 events/second
Sorting	1- and 2-way
Back-to-back sorting speed	200 events/second
Absolute counts	Yes
Volumetric counts	Yes
Warm-up time	Less than 1 minute
Sorting purity	Up to 99% purity

Instrument specifications	
WOLF G2 Dimensions	14.8H x 18.0W x 13.6D inch (37.6H x 45.8W x 34.5D cm)
WOLF G2 Weight	54 lbs / 24.5 kg
WOLF G2 Electrical	AC Input: 100-240V, 50-60Hz, 2A
N1 Dimensions	8.42W x 6.5H x 8.34D in (21.4 x 16.5 x 20.9)
N1 Weight	5.5 lbs / 2.5 kg
N1 Electrical	DC Input: 24V, 1A

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