

Freedom EVOLyzer – Technical specifications

Hardware features				
Tip configuration	EVOLyzer 100: 2 or 4 tips; EVOLyzer 150: 4 or 8 tips; EVOLyzer 200: 8 tips Various combinations of different tip types are possible			
Tip types	FEP-coated stainless steel tips and disposable tips with or without filter (200/1000 µl)			
Syringe size	1000 µl			
Liquid handling features				
Pipetting precision (CV)	Volume	Fixed tips	Disposable tips 200 µl	Disposable tips 1000 µl
Standard volumes ¹⁾	10 µl/100 µl	≤ 3.5%/≤ 0.75%	≤ 3.5%/≤ 0.75%	-/≤ 1%
Liquid detection	Down to 50 µl of conductive liquid can be detected in round-bottom microplates on standard microplate carrier			
Sample loading range	Variable, starting with 16 sample tubes per grid up to 640 sample tubes (40 grids) depending on the worktable size			
Sample input formats	Sample tubes (tube diameter from approx. 10 up to 16 mm), microplates, strip plates or deep-well plates			
Strip handling	Up to 12 different assays per plate			
Predilution options	Common, serial or exclusive predilution, as well as several predilutions on one plate			
Barcode identification				
Supported formats	Sample tubes, microplates, deep-well plates, strip plates, reagent containers			
Barcode evaluation	Code 39, Code 128, Codabar and 2 of 5 interleaved			
Barcode evaluation	Reagent type, recording of lot number, lot expiry date			
Incubation				
Ambient incubations	All incubators are suitable for dark incubation, and temperature is monitored			
Heated incubations	Freedom EVOLyzer 100: 6 positions; Freedom EVOLyzer 150 & 200: 6/12 positions with or without shaking			
Temperature range	RT-incubator: ambient temperature measured with accuracy of ± 1.5°C Heated incubator MIO-2™: from 5°C above ambient temperature up to 46°C. Incubator is calibrated at 37°C or 46°C with accuracy of +/- 0.5°C. The temperature accuracy over the plate +/- 1.0°C			
Washer: HydroFlex™				
Manifold	8-way or 16-way manifold			
Wash channels	4 channels for wash buffers, wash buffer capacities: 2 x 2 l and 2 x 4 l with liquid level sensing			
Wash modes	Strip or plate mode			
Photometer: Sunrise™				
Measurement range	340–399 nm: 0–3.0 OD; 400–750 nm: 0–4.0 OD			
Wavelength selection	4 or 6 fixed interference filters (340–750 nm) or gradient filter (400–700 nm)			
Measurement time	Single wavelength: 6 seconds; dual wavelength: 8 seconds			
Software				
Interface	Supporting 21 CFR part 11, operating system Windows® XP SP3 and Windows 7 (64-bit) Bidirectional interface ASTM ²⁾ (NCCLS ³⁾ LIS1 ⁴⁾ NCCLS LIS2) interface			
Dimensions				
Height	Freedom EVOLyzer 100	Freedom EVOLyzer 150	Freedom EVOLyzer 200	
Width	910 mm/35.8"	910 mm/35.8"	910 mm/35.8"	
Depth	1520 mm/59.8"	1890 mm/74.4"	2490 mm/98"	
Weight	800 mm/31.5"	800 mm/31.5"	800 mm/31.5"	
Weight	210 kg	260 kg	290 kg	
Power supply requirements	Power: 600 VA (Freedom EVOLyzer 100) and 1200 VA (Freedom EVOLyzer 150 & 200) Voltage: 100–120 VAC and 220–240 VAC, frequency 50/60 Hz			
Operating conditions	Temperature: 15–32 °C/59–90 °F, relative humidity: 30–80% (non condensing) at 30 °C/86 °F			
Compliance	CE marked; compliant with the directive of in vitro diagnostic medical devices 98/79/EC, in the USA a Class 1, 510(k) exempt, medical device for diagnostic use			

¹⁾ Typical results pipetting plasma in single pipetting mode (1000 µl syringe) · ²⁾ American Society for Testing and Materials

³⁾ National Committee for Clinical Laboratory Standards · ⁴⁾ Laboratory Information System

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