

Freedom EVOlyzer[®] 2-150/8



DiaSorin

The Diagnostic Specialist

FOR OUTSIDE THE US ONLY

> YOU CAN COUNT ON

> DIASORIN EXPERTISE

> TECAN RELIABILITY

> MUREX QUALITY

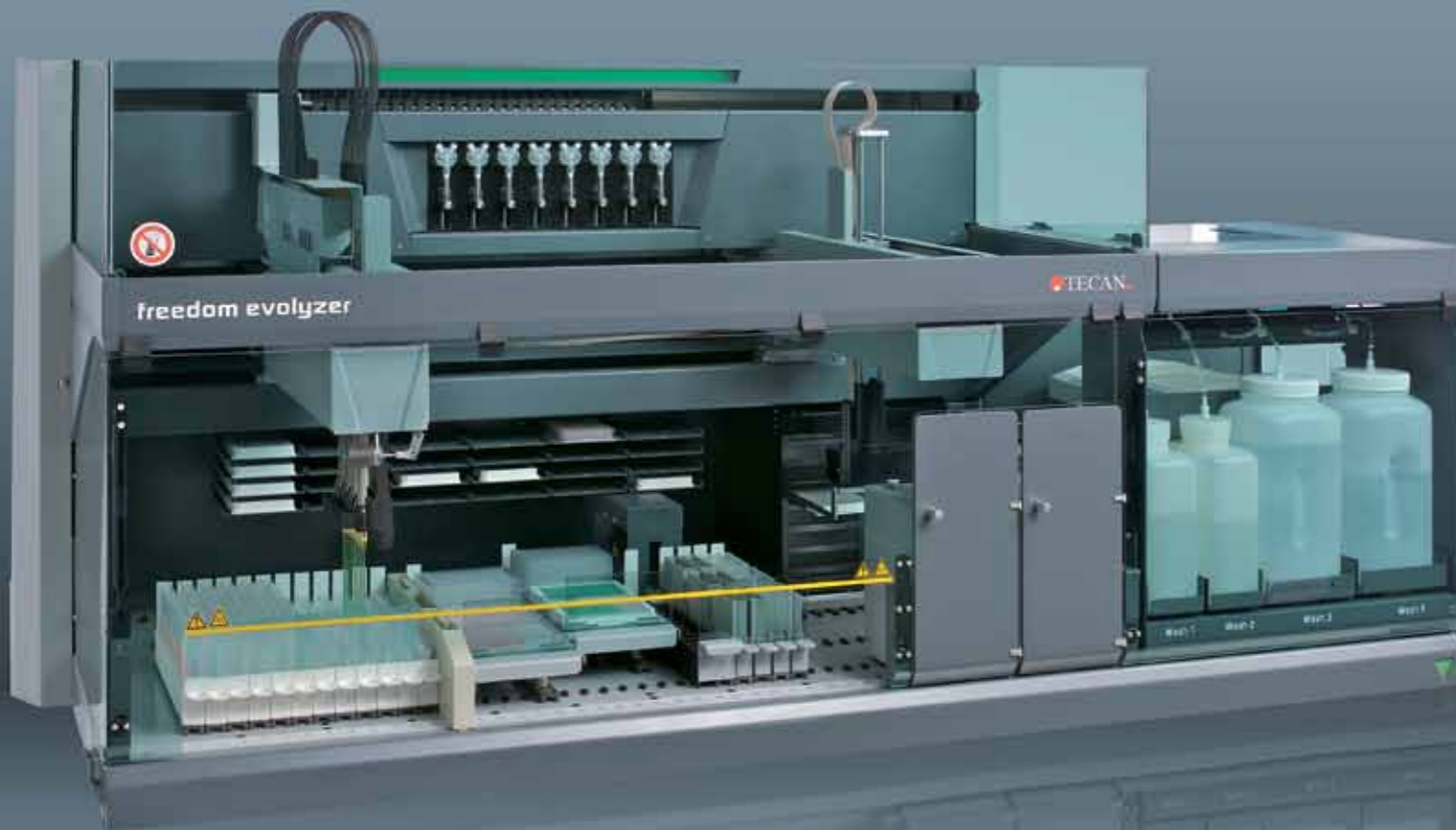
> HIGH PRODUCTIVITY

High speed processing and dual parallel arm design

> BLOOD BANK SCREENING ASSAYS

- HIV Ag/Ab
- HIV
- HTLV I/II
- anti-HCV
- HCV Ag/Ab
- HBsAg
- anti-HBc
- Syphilis
- Chagas

murex
Murex® is a DiaSorin trademark
on board



Freedom EVOlyzer® 2-150/8 with disposable tips is the configuration proposed by DiaSorin to automate microplate-based ELISAs, producing accurate and reliable results.

WASHING AND READING STEPS

The platform's HydroFlex™ system washes the microplates in full plate or strip mode. Up to four different washing buffers can be used. The weight of each bottle is monitored to prevent the instrument from running out of wash buffers. A Sunrise microplate reader evaluates each Assay at the end of the reaction, using the Magellan™ data reduction software. The instrument can also be used for verification of dispensing during processing.

KEEP TRACK OF ALL YOUR SAMPLES

PosID™ positive identification barcode reading and tracks all your samples, throughout the entire process, providing full sample traceability for your records. Processing of new samples during the starter run is possible.

INCUBATION FEATURE

Microplates can be heated in up to two incubators, each with six available slots. The temperature of each slot is controlled independently, and the slots are closed for optimal temperature distribution and dark incubation.

MAINTENANCE

The Freedom EVOlyzer keeps track of all performed maintenance tasks and informs you when the next task is due. A wizard guides you through each maintenance procedure and a report is produced at the end, which can be printed and kept for your records.

SOPHISTICATED SOFTWARE FOR SIMPLE PROCESS CONTROL

Freedom EVOlution™ Software Run Control, the Freedom EVOlyzer's software is easy to use and guides you through the sample processing, step by step.

QUALITY

Freedom EVOlyzer with DiaSorin Murex assay (ELISA) on board meets the blood banks expectations, by the combination of instrument safety and reliability with reagents of high quality.

Powered by
TECAN

TECHNICAL SPECIFICATION

HARDWARE FEATURES

Part number	I0055
Configuration	FDM EVOlyzer 2-150/8 Diasorin 2 Incubators; worktable 1.5 m; 8 tips.
Tip types	Disposable tips without filter (200/1000 µl)
Syringe size	1000 µl

LIQUID HANDLING FEATURES

Pipetting precision (CV) Standard volumes *	Volume Disposable tips 200 µl 10 µl 100 µl	Disposable tips 1000 µl ≤ 3.5% – ≤ 0.75% ≤ 1%
Liquid detection	* Typical results pipetting plasma in single pipetting mode (1000 µl syringe) 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 192 sample tubes (12 grids) depending on the worktable configuration	
Sample input formats	Sample tubes (tube diameter from approx. 10 up to 16 mm), microplates, strip plates or deep-well plates (archiving supported)	

BARCODE IDENTIFICATION

Sample tubes, microplates, deep-well plates, strip plates, reagent containers (available upon request)

Supported formats	Code 39, Code 128, Codabar 2 of 5 Interleaved
Barcode evaluation	Reagent type, recording of lot number, lot expiry date

INCUBATION

All incubators are suitable for dark incubation, and temperature is monitored

Ambient incubations	Freedom EVOlyzer 150: 12 positions
Heated incubations	Freedom EVOlyzer 150: 12 positions 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 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	Plate mode

PHOTOMETER: SUNRISE™

Wavelength selection	6 fixed interference filters: 450; 492; 540; 570; 620; 690
Measurement time	Single wavelength: 6 seconds; dual wavelength: 8 seconds

SOFTWARE

Supporting 21 CFR part 11, operating system Windows® XP SP 3

Interface	Bidirectional ASTM* (NCCLS** LIS1***/NCCLS LIS2) interface
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DIMENSIONS

Freedom EVOlyzer 150

Height	910 mm/35 .8"
Width	1890 mm/74.4"
Depth	800 mm/31.5"
Weight	260 kg
Power supply requirements	1200 VA (Freedom EVOlyzer 150) 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

*American Society for Testing and Materials ** National Committee for Clinical Laboratory Standards *** Laboratory Information System

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