







Tecan liquid handler

•TECAN•

FreedomEVO Introduction

Basic Instrument



Tecan automation: Freedom EVO® series

- One instrument platform 4 sizes
- Full scalability and flexibility
- Numerous off the shelf modules

EVO150





and capacity System size







EVO75

System performance and flexibility

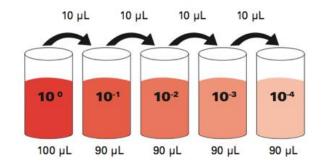
Channel option

•TECAN•

- Serial Dilution
- Single Pipette
 - Sample dispense

- Multi Pipette
 - Reagent dispense

- Mix, Hold
- Liquid Detection
 - Reagent, Sample Volume Calculation





Channel option



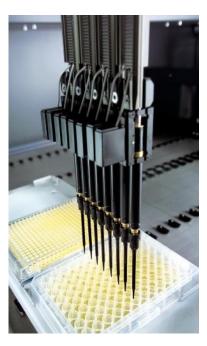
Freedom EVO100-200 Liquid handling arm channel options



2-channels



4-channels



8-channels



16-channels

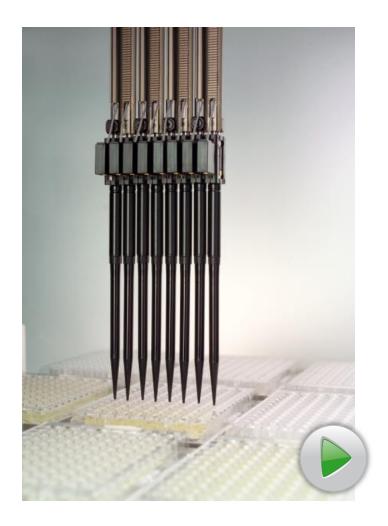
Channel option



Variable Y axis and independent Z axis







Tip option

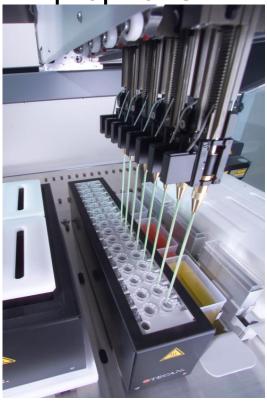


Freedom EVO100-200

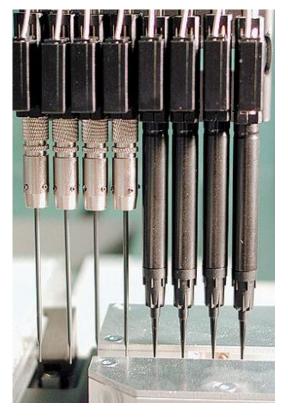
Liquid handling arm tip options



Disposable tips



Fixed washable tips



Fixed washable tips and disposable tips

Tip option



Choice of disposable tip sizes



Different sizes



10 μL



50 µL



 $200~\mu L$



1000 μL

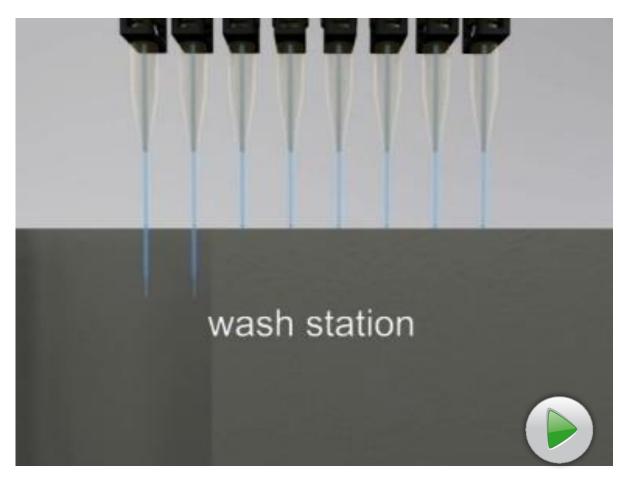


Tip option



Fixed Washable Tip WashStation







Air LiHa



Air LiHa... Convenient high quality pipetting

- Mith a broad Volume Range: 0.5μL to 1000 μL
- Free dispense down to 0.5 μl
- A wide choice of Tecan Standard tips (10, 50, 200 and 1000µl LiHa disposable tips)
- Including PMP liquid classes for 1000µl and 200µl DiTis for serum and water
- High Safety through
 - Capacitive Liquid Level Detection (cLLD)
 - Pressure-based Liquid Level Detection (pLLD)
 - Pressure Monitored Pipetting (PMP)
- Satisfies your assay demands for reliable high pipetting quality
- Offers you greater convenience through elimination of system liquid
- Increases your system productivity and reduces laboratory costs through lower maintenance requirements



Pipetting precision (CV)



Liquid Liha

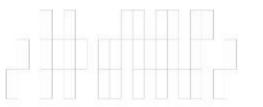
Standard volume Pipetting precision (CV)	Volume	Standard washable tips:	Disposable tips:
	10 μΙ	< 1.75%	< 2.25%
	100 μΙ	< 0.4%	< 0.4%

Low volume Pipetting precision (CV)	Volume	Low-volume washable tips:	Low-volume disposable tips:
	1 μΙ	< 6%	< 6%
	10 μΙ	< 1.0%	< 1.0%

Air Liha

	Tip volume	Pipetting volume	Precision (% CV)
Pipetting precision (CV)	10μΙ	0.5μl	< 6.0
	10μΙ	1μΙ	< 4.0
	10μΙ	10μΙ	< 1.0
	50μl	1μΙ	< 4.0
	50μl	5μΙ	< 1.0
	50μl	50μΙ	< 0.4
	200μΙ	10μΙ	< 1.5
	200μΙ	200μΙ	< 0.4
	1000μΙ	100μΙ	< 0.4
	1000μΙ	1000μΙ	< 0.4

Freedom EVOware® application software







Simple Easy to start and run scripts

and processes

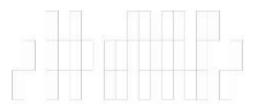
Intuitive Rapid definition of new

processes

Flexible Extensible with a wide range of

devices and applications

Freedom EVOware® application software







is a simple and intuitive software for controlling the Freedom EVO® series of platforms and a wide variety of devices.



uses the same intuitive graphical user interface and has a fully integrated scheduler to control multi-plate assays.





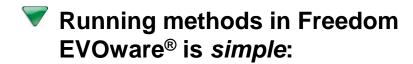
Starting a method



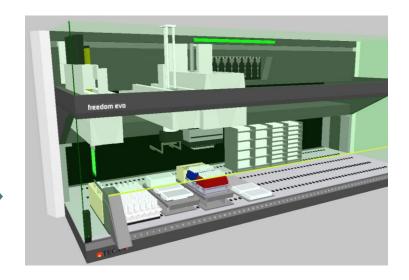








- Double-click the icon
- Optional authentication
- Select method
- Press "run" to start



TouchTools



TouchTools – simply greater efficiency

- An intuitive interface designed to for the everyday operation of Freedom EVOware®
- Easily program and execute your specific laboratory workflow and SOP's

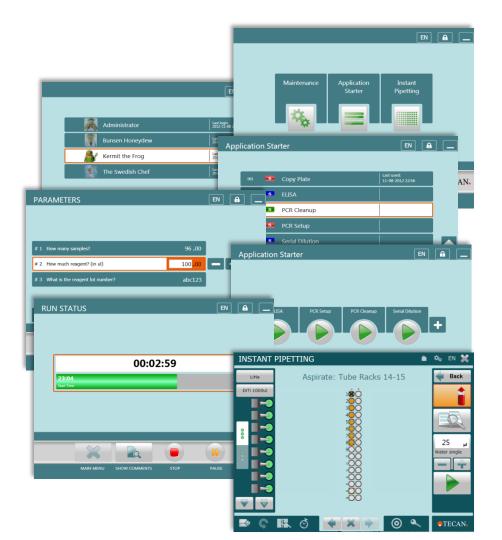


TouchTools



Standard TouchTools Features

- Get all of the following with no programming:
 - Easy Login
 - Mode Selection
 - Script management
 - Input variable screens
 - Easy to see run status
 - Instant Pipetting

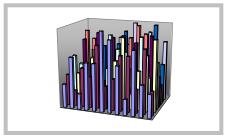


Quantitation and normalization wizards

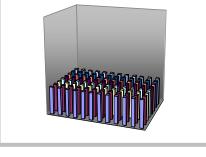












Extraction and Purification

On Freedom EVO® with Te-MagS™ Te-VacS™

Quantitation

PicoGreen® (on Freedom EVO®) OD 260 / 280 (on Freedom EVO®) RT-PCR

Normalization

On Freedom EVO®

Application

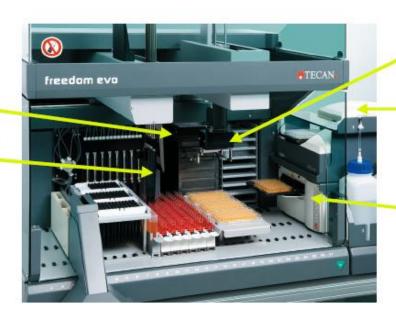


Automated ELISA system

▼ The Freedom EVO workstation configured with Arm and Robotic Manipulator Arm economically enables the full automation of ELISA assays.

Heated incubator available with or without shaking

8 Plus 1 Access liquid handling arm



Robotic plate manipulator arm

HydroFlex plate washer

Sunrise plate reader

Application

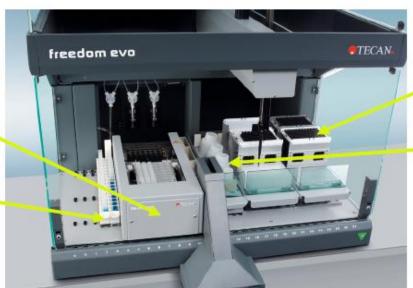


Nucleic acid extraction system

The Freedom EVO workstation compact pipetting platform can be configured for extracting genomic DNA, viral DNA or RNA from 1 to 96 samples.

Te-MagS magnetic separation module with heated position

Sample Tubes



4 Disposable tip positions

Reagent vials

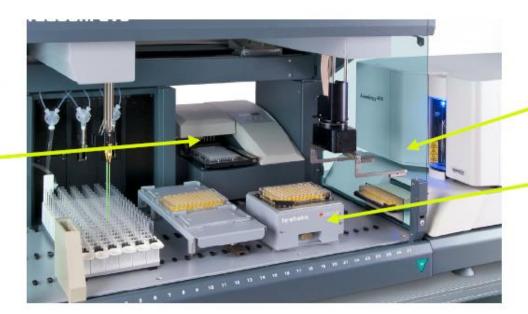
Application



Automated Luminex system

The Luminex xMAP multiplexing technology allows researchers to perform numerous tests simultaneously for detection of gene sequences, protein interactions and other biological reactions, on the surface of fluorescent-coded microspheres.

HydroFlex™ washer with optional Magnetic Bead Separation



Luminex® 200 analyzer

Te-Shake™ plate shaker

