

FAPON

# Ideal 30 Fully Automatic Molecular Diagnostic System

- ✔ 2 mins hands-on time
- ✔ 30 mins automation
- ✔ Anti-contamination design
- ✔ Open platform cooperation
- ✔ 0.04 m<sup>3</sup> volume

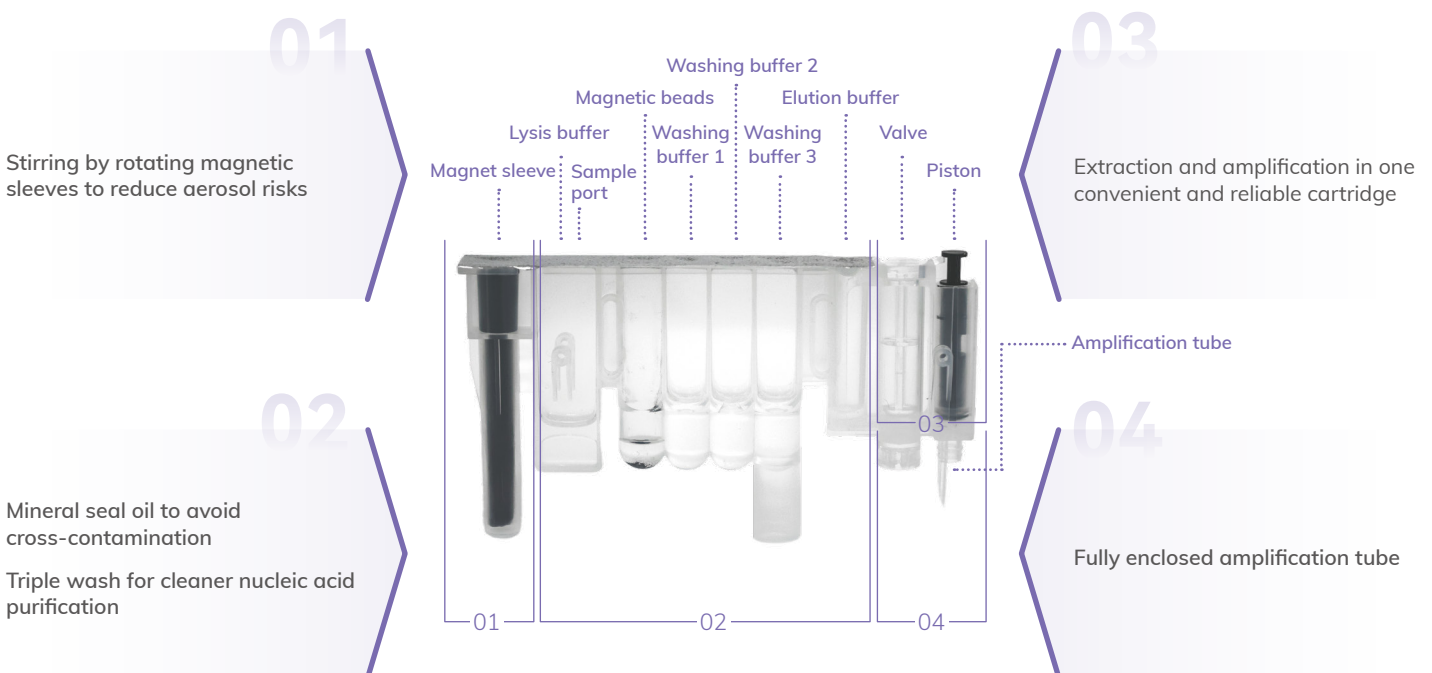


## Introduction

As a new member of the Fapon open molecular diagnostics platforms, Ideal 30 is suitable for healthcare facilities, centers for disease control and prevention, customs, airports and more. Coupled with an open ecosystem-based business model, this is an effective strategy for reagent companies to enter the point-of-care testing (POCT) molecular diagnostics market.

The analyzer combines magnetic bead-based nucleic acid extraction and quantitative fluorescence polymerase chain reaction (qPCR) technologies to provide rapid results. Unique cartridge design ensures isolation from the surroundings. With minimal manual involvement and a fully automatic process from samples to results in as quick as 30 minutes, it considerably reduces the turnaround time. Compact and flexible, Ideal 30 is ideal for your POCT solutions.

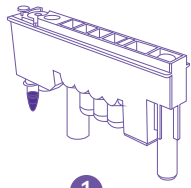
## Cartridge



## Benefits

- **Fast and intelligent**  
The cartridge is prefilled with extraction reagents and magnetic beads. No manual preparation is required. Hands-on time is reduced to not more than 2 minutes. Add samples, manage settings, and just wait for results.
- **Stable and reliable**  
The cartridge comes with an internal control to ensure reliable sample loading. The system integrates fully enclosed amplification tubes, stirring by rotating magnetic sleeves, UV light irradiation, membrane filtration and aerosol cleaner. In product design, mineral seal oil and alcohol-free formula prevent sample cross-contamination and PCR product aerosol diffusion.
- **Open and compatible**  
With open software, the analyzer is compatible with various magnetic bead-based extraction reagents and test kits on the market.
- **Easy to use**  
The compact, integrated and plain analyzer occupies only 0.04 m<sup>3</sup>.
- **Flexible**  
Multiple tests can be done in a single run in 2 cartridges through 4 fluorescence channels.

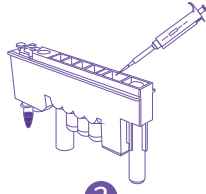
## Workflow



1

Ready-to-use reagents

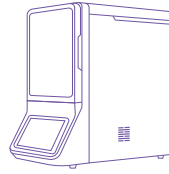
1 min



2

Samples

30s



3

Instrument settings

30s



4

Automation & analysis

30-35 mins

## Applications



## Specifications

Sample volume	50 $\mu$ L–600 $\mu$ L
Turnaround time	30–40 minutes
Sample type	Oropharyngeal swab, nasopharyngeal swab, eye swab, anal swab, pleural effusion, ascites, feces, blood, serum, urine, sputum, tissue grinder-treated sample, etc.
Cartridge	2 cartridges per run
Panel	8 panels per run
Reagent preservation	Freeze-dried reagents, transported and stored at room temperature
Method	Magnetic bead-based nucleic acid extraction and multiplex qPCR
Temperature accuracy	$\pm$ 0.5 $^{\circ}$ C
Weight	18 kg
Fluorescence channel	FAM, HEX, ROX, Cy5

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