

# AUTOMATIC FRACTION COLLECTOR (AFC)



**IZON**

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# THE AUTOMATIC FRACTION COLLECTOR (AFC)

The world's first automated, smart exosome isolation system is here. A significant enhancement to the qEV platform, the Izon Automatic Fraction Collector (AFC) allows for fast, precise, automated isolation of EVs.

qEV is already widely known as the most advanced method for rapid, clean isolation of extracellular vesicles. Until now the qEV process has been a bit labour intensive and difficult to scale. The AFC automates the qEV isolation process, eliminating human error and enables high-precision large-scale, standardisable exosome isolation.

The combination of the AFC + qEVs is expected to be rapidly adopted as the global standard for EV isolation.

## The novel features of the AFC include:

- ✓ Cost effective, compact, ideal for both small scale and high throughput parallel processing of EV samples.
- ✓ It measures the fluid volume precisely by weight, weighing individual drops and accurately measuring total fraction weight.
- ✓ The AFC utilises a rotational carousel for holding collection tubes. During fraction collection the carousel will advance to the next fraction when the selected fraction weight is reached. The carousel is reversible with 2 different fraction tube size options.
- ✓ The fluid that elutes from the qEV column before the EV fractions (void volume) is precisely measured and pooled into a separate central well of the AFC carousel, avoiding unnecessary collection of the void fractions.
- ✓ Once isolation is initiated via the integrated touch screen, the user can simply walk away.
- ✓ Feedback is given to the user via LED lights on the device, making it very easy to manage multiple AFCs in parallel.
- ✓ The qEV columns are now RFID tagged with addressable memory, the RFID label is registered with the AFC, critical information for the user such as column size, column type (35 or 70) is displayed, QA and production data, and column usage data are individually recorded.

## SPECS

### Dimensions

w25xd30xh40 cm

### Weight

1.2kg

### Touch screen size

5inch diagonal, 800x480 resolution

### Minimum Isolation Time

2min (qEVsingle, 10 fractions)

### Maximum Isolation Time

25min (qEV10, 7 fractions)

### Column data provided to user

Column type, batch number, expiry date, number of times used



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