

# MagCore® Automated Nucleic Acid Extractor

High-throughput Channel

## MagCore® HF48



MagCore® HF48 is a powerful system that can simultaneously process up to 48 samples with stability and consistency. It provides fast and cost-effective automated purification of nucleic acids from diverse sample types. It can be coupled with our extraction kits for whole blood, plasma, bacteria cell, cultured cell, virus and tissue samples. With a built-in sterilization system, pre-programmed and optimized protocols, and our patented magnetic bead technology, MagCore HF48 can deliver quality and efficient nucleic acid purification. It is the perfect solution for users with higher throughput needs for nucleic acid extraction.



### Worldwide Patented Magnetic Beads

Cellulose-coated magnetic beads, coupled with our patented binding and separation technology, guarantee high quality extracts.



### Ideal for both DNA/RNA Extraction

Built-in protocols are created for extracting nucleic acids from whole blood, plasma, tissue cell, plant cell, bacteria cell and virus samples.



### UV Decontamination

The equipped UV lamp minimizes the risk of cross-contamination and ensures user and product safety.



### High Capacity of 48 Samples

Two 24-sample modules provide more flexibility and time-saving operation and allow running up to 48 samples at one time.



### Built-in Programs (Upgradeable via USB ports, Plug&Play)

MagCore® HF48 has built-in protocols for most of the extraction kits we offer. Simply run the protocol by inputting the 3-digit code printed on the kit of interest.

MagCore® is equipped with a USB port. Free upgrade of software or protocols can be downloaded from our website ([www.rbcbioscience.com](http://www.rbcbioscience.com)).



### Touch Screen with User Friendly Interface

An integrated 8.9-inch full-color touch screen with user-friendly interface offers ease in operation. Only one touch is required to run your daily works.



### Barcode Scanner (optional)

It enables sample tracking and monitoring throughout the entire purification process and helps organize test results.

## Easy To Use

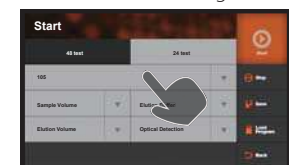
Load Samples



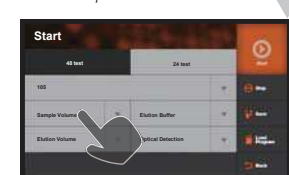
Install Accessories



Select the code of the cartridge



Select Sample Volume



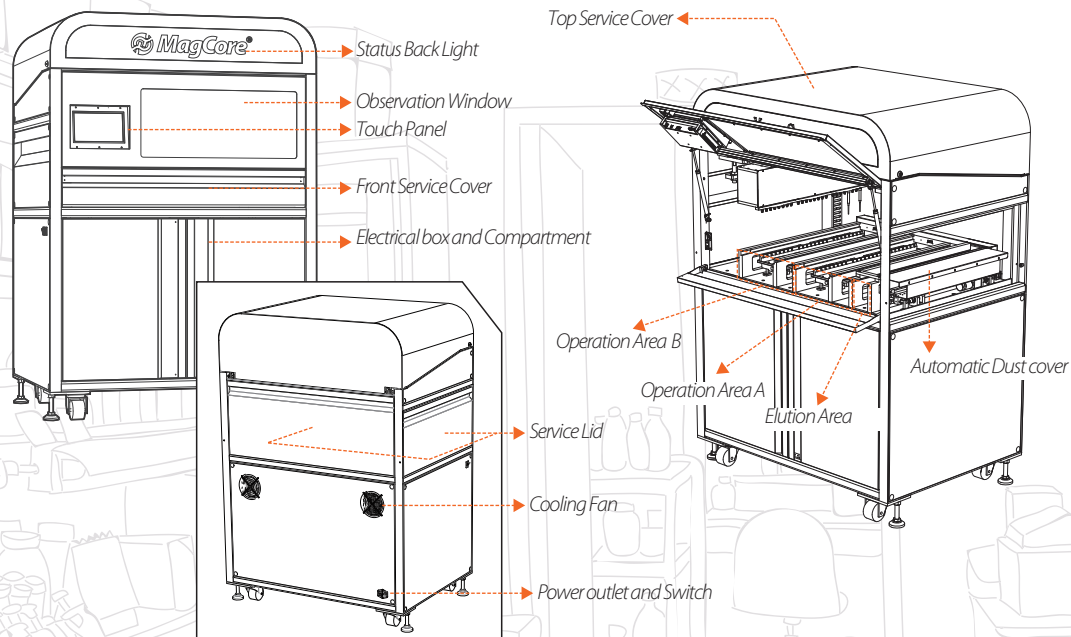
Press Start



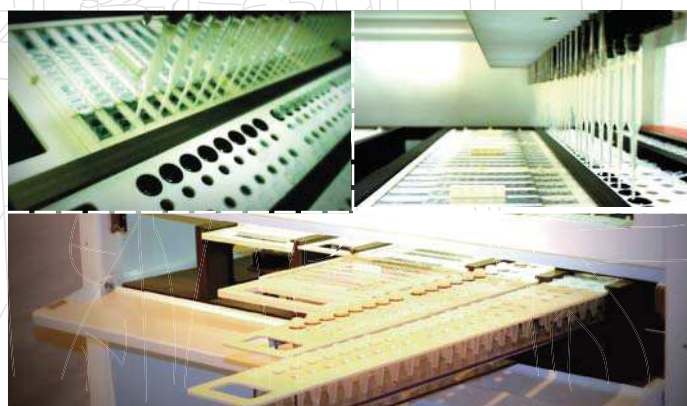
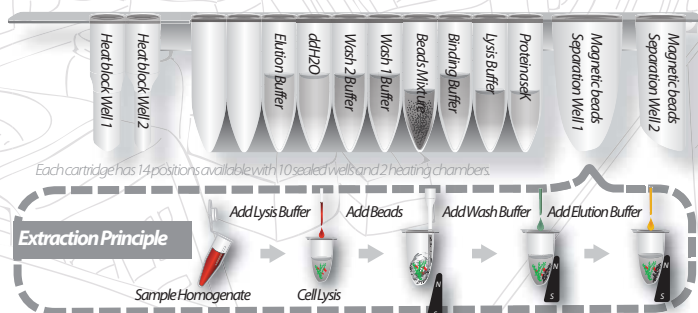
Complete in 30 to 90 minutes!



# MagCore® HF48 System Overview



## Cartridge Design and Extraction Principle



## Specification

Model	HF48
System Method	Cellulose coated magnetic beads
System Components	<ol style="list-style-type: none"> <li>1. Pipetting Unit: X and Y-axis movement for sample transfer and dispense.</li> <li>2. Special designs of the cartridge rack, T-rack, and tube rack for an easy installation.</li> <li>3. Auto-cartridge locking.</li> <li>4. Electric Control: Internal microprocessor.</li> <li>5. 8.9-inch full-color touch screen.</li> <li>6. Accessories: T-Rack, Cartridge Rack, Tube Rack.</li> </ol>
Power Supply	Voltage: AC 200V~220V; Frequency: 50/60Hz;
Dimension	W1000 x D800 x H1600 (mm) / W39.37 X D31.49 X H62.99 (inches)
Net Weight	250kg / 551.25Lb
Available Program	101, 102, 104, 105, 106, 201, 202, 211, 401, 502, 601, 610

## Operating Parameters

Processing Capacity	1~48 samples per batch
Processing Time	30-90 minutes (depends on sample type and method)
Sample Volume	200 µl / 400 µl / 1,200 µl
Elution Volume	60 µl / 100 µl / 150 µl / 200 µl
Yield	Average 6 µg Genomic DNA from 200 µl human whole blood
Purity	DNA: OD <sub>260</sub> /OD <sub>280</sub> ratio 1.8 ± 0.1 RNA: OD <sub>260</sub> /OD <sub>280</sub> ratio 2.0 ± 0.1
Pipetting Accuracy	500 µl ≤ 4%

## Operating Environment

Temperatures allowed during transportation, storage, and packaging	15°C-35°C
Temperatures allowed during operation	18°C-30°C
Pollution Degree	Level 2



FDA (10055336) registered and CE-IVD certified (Instruments & Reagents)  
Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR



**RBC Bioscience Corp.**  
www.rbcbioscience.com  
info@rbcbioscience.com