

MagCore[®] Automated Nucleic Acid Extractor



MagCore[®] Automated Nucleic Acid Extractor Overview



Discontinued Discontinued

Cost-Effective
MagCore[®] HF16

Economic, Fast, Space Saving

MagCore[®] Compact

High Capacity/Module

MagCore[®] HF48

Most popular with high CP value

MagCore[®] HF16 Plus

Spectrophotometer Built-in

MagCore[®] Super

Process Monitoring through your Smartphone

MagCore[®] Plus II

■ Standard □ Optional

	MagCore [®] HF16	MagCore [®] Compact	MagCore [®] HF48	MagCore [®] HF16 Plus	MagCore [®] Super	MagCore [®] Plus II
8 Sample 1-8 Samples		■				
16 Sample 1-16 Samples	■			■	■	■
48 Sample 1-48 Samples			■			
 Spectrophotometer					■	
 Touch Screen			■	■	■	■
 UV Decontamination	■	■	■	■	■	■
 Barcode Scanner			□	□	■	□
 Thermo Printer					■	
 Built-in Programs (Upgradeable via RS232 ports)	■	■				
 Built-in Programs (Upgradeable via USB ports, Plug&Play)			■	■	■	■
 USB Output (USB flash drive not provided)				■	■	■
 Progress Monitoring (Wireless)						■
 LIMS (Laboratory Information Management System)					□	■

MagCore[®] Automated Nucleic Acid Extractors will keep you ahead in Life Science



MagCore[®] Extractor System is a simple, fast and cost-effective instrument for automated purification of nucleic acids from a diverse range of sample sources. Featuring pre-programmed protocols and our unique magnetic-bead technology, MagCore System delivers efficient and consistent nucleic acid purification.

MagCore[®] Extractors are bench-top instruments ensuring efficient and cross-contamination free isolation of DNA/RNA. Built-in UV lamps allow to easily and efficiently decontaminate the instruments after run.

Flexibility

MagCore[®] Automated Extraction System allows you to save time without sacrificing consistency and purity. You can use one instrument to purify DNA and RNA from a broad variety of sample types: from blood to mouse tails and almost everything in between.

Ease Of Use

You will be provided with everything you need to run purifications, including pre-filled cartridges, specialized disposable tips and tubes. With the user-friendly interface and our user manuals, you are guaranteed to operate with ease.

Safety

MagCore[®] Automated Extraction System helps minimize cross-contamination by limiting hands-on procedures and turnaround time.

MagCore[®] System speeds the front-end processing, enabling you to do more tests in less time. And the Instrument is compact, so it can virtually fit into any lab.

Built-in Programs

All of our MagCore Extractor models have built-in protocols for all of the kits we offer. Simply run the protocol by selecting the 3-digit code printed on the kit of interest.

Free upgrade of software and protocols can be downloaded from our website (www.rbcbioscience.com) and uploaded through the instrument RS232/USB ports.

Diverse Sample Purification

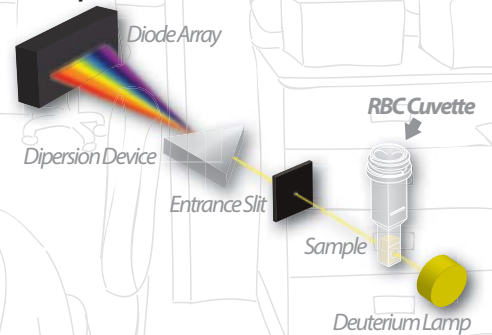
We offer extraction kits designed for Blood, Plasma, Cell, Tissue, FFPE Tissue and Plant samples, to fit all your research needs.

Competitive Price and Small Footprint

Other Features

Automatic Optical Density Measurement

- Built-in spectrophotometer provides O.D. A_{260} and A_{280} measurement of individual samples. (O.D. detection range: ABS <6.)
- A_{260} Normalization
- Disposable cuvettes.



ThermoPrinter and Barcode Scanner



Progress Monitoring



Laboratory Information Management System (LIMS)



Easy To Use

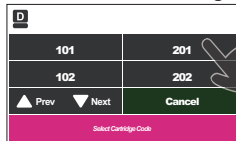
Apply samples to instrument



Load Accessories



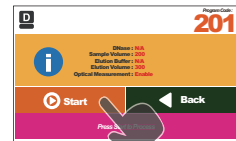
Select the number of the cartridge



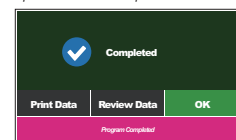
Select Sample Volume



Push Start



A Beep Sound can be heard after protocol is completed



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

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MagCore[®] Automated Nucleic Acid Extractor

The first instrument with
built-in Spectrophotometer

MagCore[®] Super

MagCore[®] Super is RBC Bioscience's most advanced and efficient automated workstation for nucleic acid extraction. It is the first platform to combine our Extractor and Spectrophotometer. Users can benefit from automated nucleic acid extraction and measurement of the OD value and concentration of the final eluate.



Automatic Optical Measurements of OD Values

Built-in spectrophotometer and our optical module provide users the option to automatically measure OD values and concentration of final eluates upon completion of the nucleic acid extraction process.

Test Report

Test results can be saved in the instrument, downloaded through the USB port and/or printed by the thermal printer.

USB Output (USB flash drive not provided)

USB Output allows users to conveniently save test reports in excel format and upload system updates with a USB flash drive.

Thermal Printer

Test reports are available in hard copy.

Laboratory Information Management System (LIMS)

Test results are automatically saved after optical measurements. You can save up to 1,600 tests in LIMS. Data can be easily transferred to a printer or computer in the same network and the report file can be subsequently processed by a LIMS.



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 16 Samples

The instrument and protocols allow running up to 16 samples at one time, providing time-saving and flexible operation.



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

MagCore Super has built-in protocols for all of the extraction kits we offer. Simply run the protocol by selecting 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).



Touch Screen with User-Friendly Interface

An integrated 7-inch full-color touch screen with user-friendly interface offers ease in operation. Only one touch is required to run your daily work.



Barcode Scanner

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



Progress Monitoring

Remote (wireless) HMI device automatically transfers the data to your Android smartphone.

Easy To Use

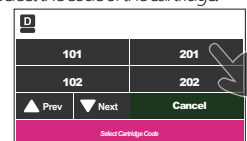
Load Samples



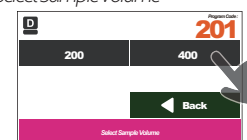
Install Accessories



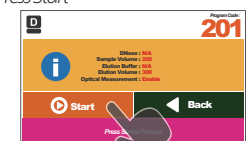
Select the code of the cartridge.



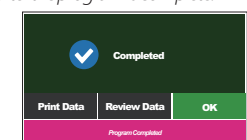
Select Sample Volume



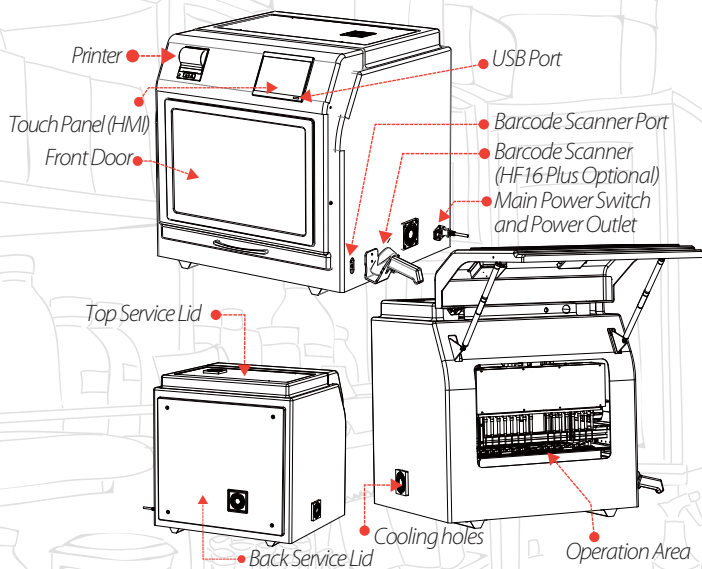
Press Start



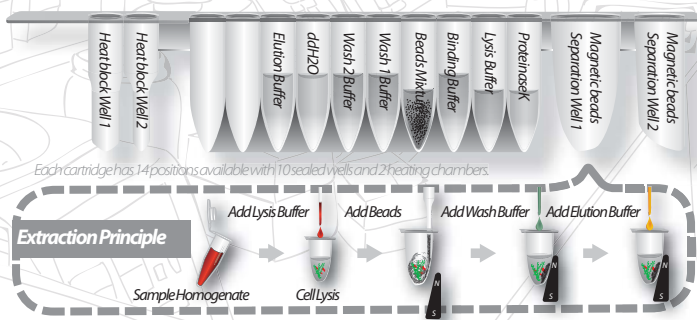
A Beep Sound can be heard after the program is complete!



MagCore® Super System Overview



Cartridge Design and Extraction Principle



Specification

Model	Super
System Method	Cellulose coated magnetic beads
System Components	<ol style="list-style-type: none"> Pipetting Unit: X and Y-axis movement for sample transfer and dispense. Electric Control: PLC module and ARM-based main board embedded in UV Light: power 8w, life duration 1,000hrs Heating Block: RT-90°C OD Detection Range: ABS 0 -2.5 Detection Source: D2 lamp Detection Wavelength: 260nm, 280nm Display Screen: 7-inch color touch panel Accessories: T-racks, cartridge racks, cuvette racks, barcode scanner, thermal printer
Power Supply	Voltage: AC 100V~ 240V; Frequency: 50/60Hz
Dimension	W760 x D700 x H770 (mm) / W29.92 x D27.55 x H30.31 (inches)
Net Weight	78kg / 171.99lbs

Operating Parameters

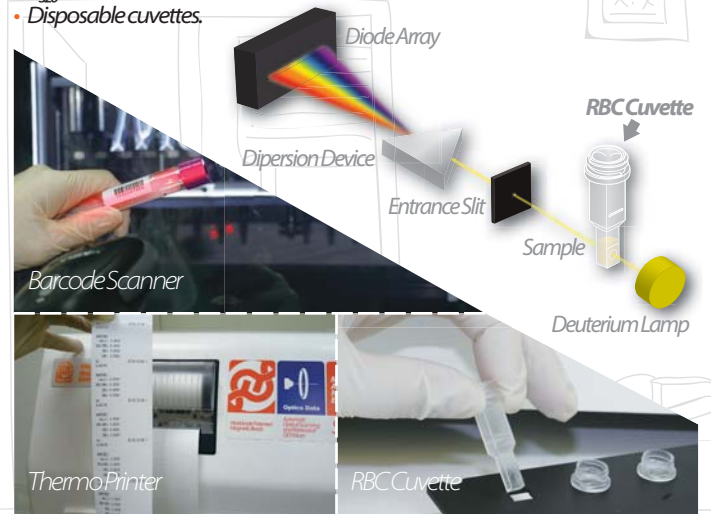
Processing Capacity	1-16 samples per batch
Processing Time	30-90 minutes (depends on sample type and method)
Sample Volume	200 µl / 400 µl / 1,200 µl
Elution Volume	30 µl / 60 µl / 100 µl / 150 µl / 200 µl
Yield	Average 6µg Genomic DNA from 200µl human whole blood
Purity	DNA: OD A ₂₆₀ /A ₂₈₀ ratio 1.8 ± 0.1 RNA: OD A ₂₆₀ /A ₂₈₀ ratio 2.0 ± 0.2
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

Automatic Optical Scanning and Retrieval of OD Values

- The optical module provides O.D. A₂₆₀ and A₂₈₀ measurement of individual samples. (O.D. detection range: ABS < 6)
- A₃₂₀ Normalization
- Disposable cuvettes.



Laboratory Information Management System (LIMS)



Process Monitoring (Wireless-Android Only) (optional)



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