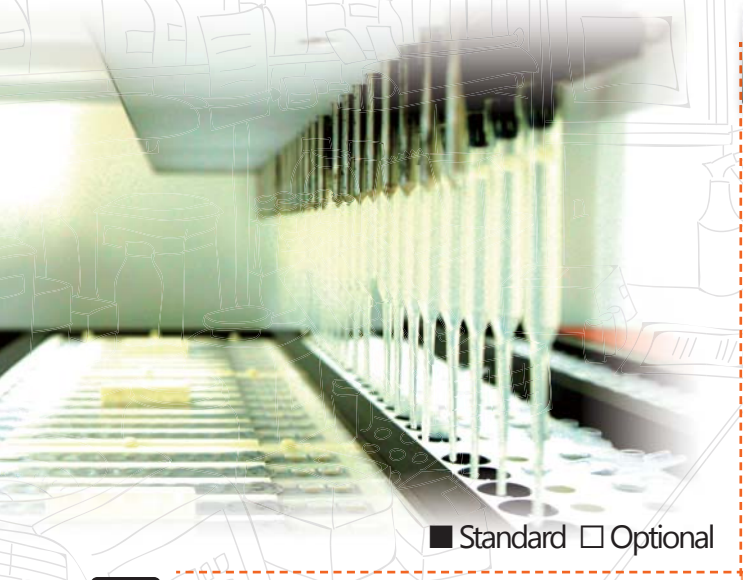
MagCore® Automated Nucleic Acid Extractor

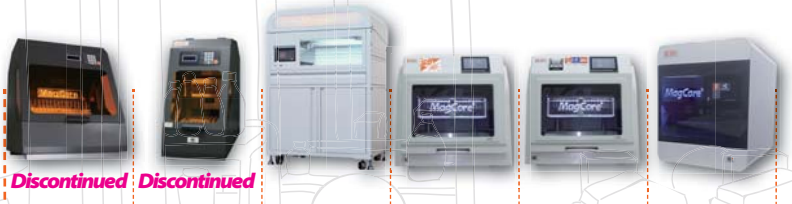
PLUVIA diagnostics

MagCore

MagCore® Automated Nucleic Acid Extractor Overview



■ Standard □ Optional



	Cost-Effective MagCore® HF16 (Discontinued)	Economic, Fast, Space Saving MagCore® Compact (Discontinued)	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
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 cros-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.

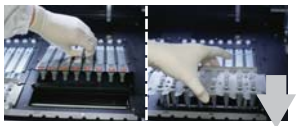
Competitive Price and Small Footprint

Easy To Use

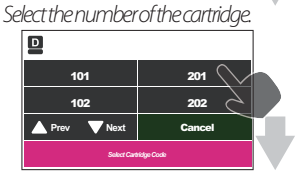
Apply samples to instrument



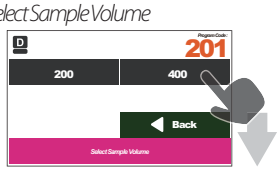
Load Accessories



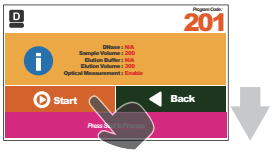
Select the number of the cartridge.



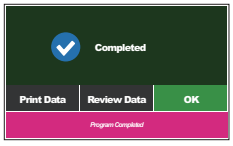
Select Sample Volume



Push Start



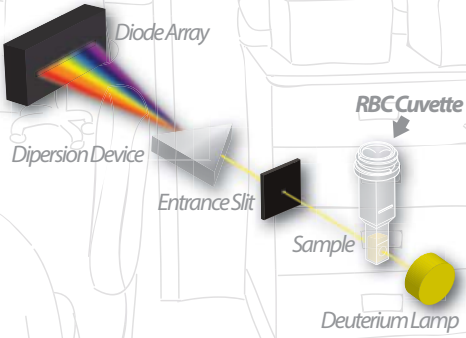
A Beep Sound can be heard after protocol is completed



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_{320} Normalization***
- ***Disposable cuvettes.***



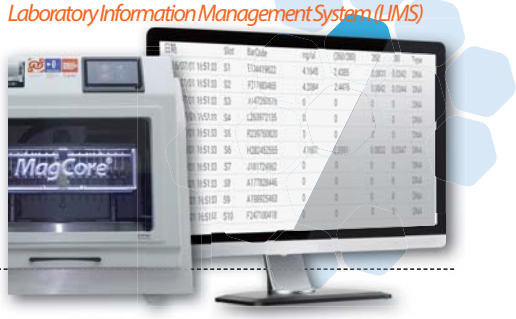
Thermo Printer and Barcode Scanner



Progress Monitoring



Laboratory Information Management System (LIMS)



FDA CE IVD FC ISO 13485 SGS UKAS MANAGEMENT SYSTEMS 005

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

MagCore® Automated Nucleic Acid Extractor



Full traceability and mobile monitoring on your smartphone

MagCore® Plus II

MagCore Plus II is the newest robotic bench-top workstation for a fast and high-yield nucleic acid purification from virtually all molecular diagnostic, biological, clinical and forensic sample types. With small footprint, light weight, user friendly interface, and a broad range of entirely built-in programs with free upgrades, 1-16 samples can be isolated simultaneously at your fingertip. The instrument simplifies your daily routine providing full traceability of kits and samples, through real-time mobile monitoring and a complete report that can be downloaded on a computer at the end of each run.

Magnetic Beads

Worldwide Patented Magnetic Beads

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

DNA RNA

Ideal for both DNA/RNA extraction

Built-in protocols are created for extracting nucleic acids from a wide range of samples, including whole blood, plasma (circulating free nucleic acid), tissue, bacteria, virus, plant and forensic.

16 Sample

Throughput up to 16 samples per run

From cartridge piercing to final eluate, all steps are performed by the instrument, that allows running 1 to 16 samples at one time, for a time-saving and flexible performance.

LIMS

Full traceability of the samples and kits

A report in .csv format is generated at the end of each run and contains all relevant data: user's name, sample and kit barcode, protocol number, sample and elution volume, start and end time. The file, opened on a computer, can be subsequently processed by a LIMS.

Monitoring

Real-Time Mobile Monitoring

During the run, the instrument HMI can be accessed via Wi-Fi from your smartphone/tablet through our App, to see real-time information about the run processing status, remaining time and errors. Android and iOS compatible.

UV

UV Decontamination

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

Upgradeable via USB

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

MagCore® Plus II features built-in protocols for all the extraction kits we offer and is equipped with a USB port for free protocol and software upgrades.

Barcode Scanner

Barcode Scanner (optional)

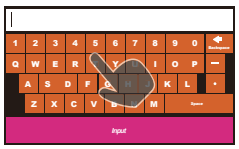
For sample and kit tracking and monitoring and an easier organization of the test results.

Easy To Use

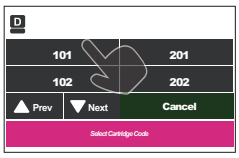
Load Samples And Install Accessories



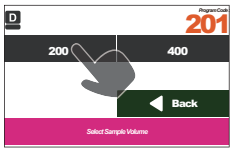
Input user's name



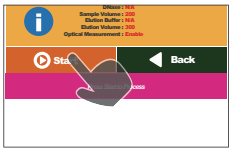
Select the code of the cartridge.



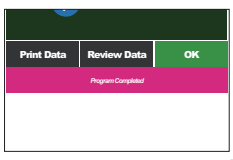
Select Sample Volume And Eluate Volume



Press Start



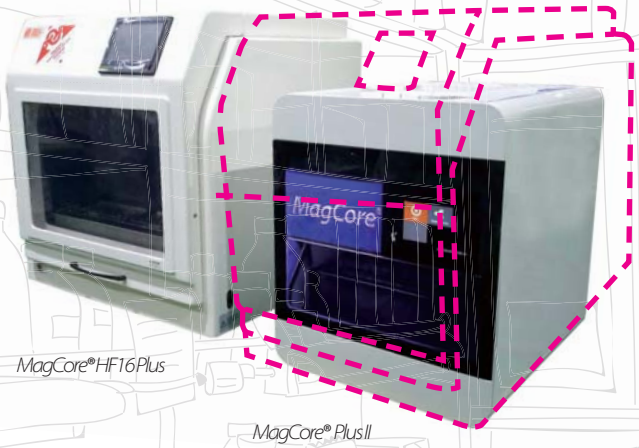
A Beep Sound can be heard when the program completes.



Open the run report on your computer



Same throughput, smaller size



MagCore® HF16 Plus

MagCore® Plus II

Barcode Scanner (optional)

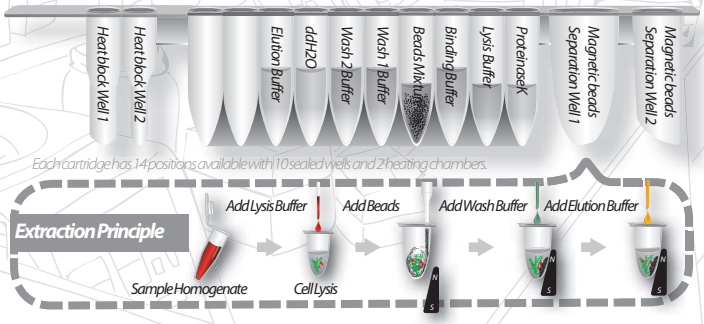


Laboratory Information Management System (LIMS)

Unidirectional LIMS device, Ethernet cable



Cartridge Design and Extraction Principle



Mobile Monitoring with Android and iOS App



Specification

Model	Plus II
System Method	Cellulose coated magnetic beads
System Components	1. Pipetting Unit: X and Y-axis movement for sample transfer and dispense. 2. Electric Control: PLC module and ARM-based main board embedded in 3. UV Light: power 8w, life duration1,000hrs 4. Heating Block: RT-90°C 5. Display Screen: 7-inch color touch panel 6. Accessories: T-racks, cartridge racks , barcode scanner
Power Supply	Voltage: AC 100V~240V; Frequency: 50/60Hz
Dimension	W600 x D600 x H600 (mm) / W23.62 x D23.62 x H23.62 (inches)
Net Weight	70kg / 154.35lbs

Operating Paramenters

Processing Capacity	1-16 samples per batch
Processing Time	30-90 minutes (depends on ample type and method)
Sample Volume	200µl/400µl/1,200µl/ 3ml/4ml
Elution Volume	30µl/60µl/100µl/150µl/200µl
Yield	Average 6µg Genomic DNA from 200µl human whole blood
Purity	DNA : O.D $A_{260/280}$ ratio 1.8 ± 0.1 RNA : O.D $A_{260/280}$ ratio 2.0 ± 0.2
Pipetting Accuracy	500µl ≤ 4%

Operating Environment

Temperatures allowed during transportation, storage, and packaging	15℃-35℃
Temperatures allowed during operation	18℃ -30℃
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

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