

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

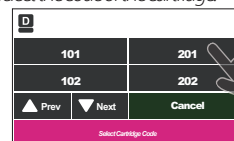
Load Samples



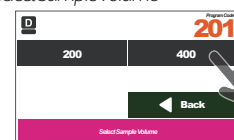
Install Accessories



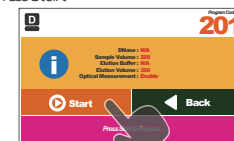
Select the code of the cartridge



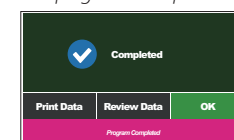
Select Sample Volume



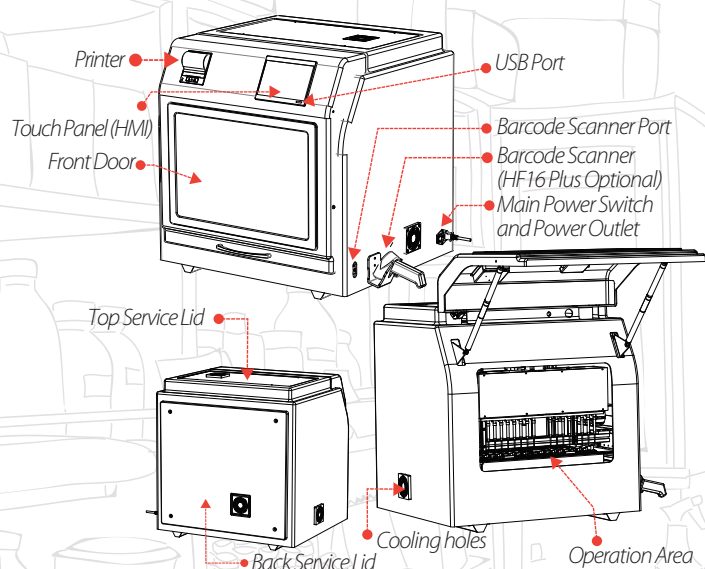
Press Start



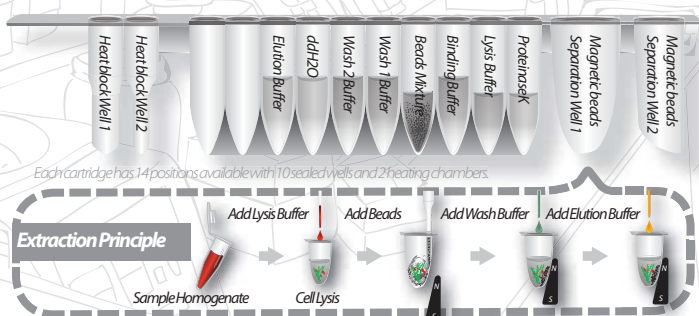
A Beep Sound can be heard after the program is complete!



MagCore® SuperSystem Overview



Cartridge Design and Extraction Principle



Specification

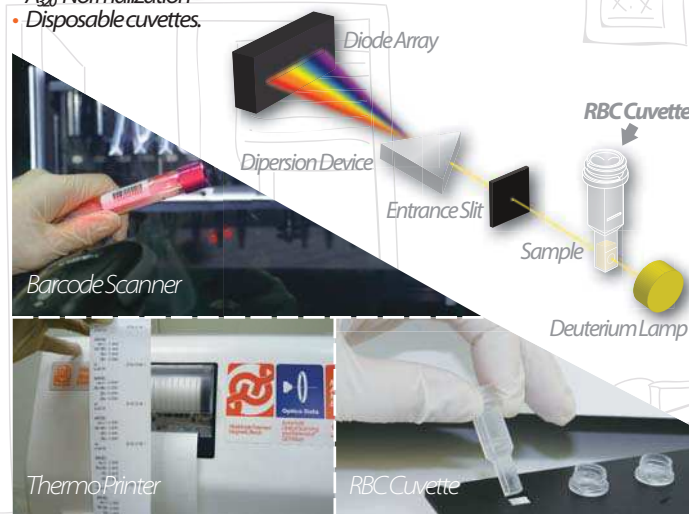
Model	Super
System Method	Cellulose coated magnetic beads
System Components	<ol style="list-style-type: none"> 1. Pipetting Unit: X and Y-axis movement for sample transfer and dispense. 2. Electric Control: PLC module and ARM-based main board embedded in 3. UV Light: power 8w, life duration 11,000hrs 4. Heating Block: RT-90°C 5. OD Detection Range: ABS 0-2.5 6. Detection Source: D2 lamp 7. Detection Wavelength: 260nm, 280nm 8. Display Screen: 7-inch color touch panel 9. 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 6 µg Genomic DNA from 200 µl 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%

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)
Unidirectional LIMS device, Ethernet cable



Process Monitoring
(Wireless-Android Only) (optional)

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