

## Automatic Nucleic Acid Extraction System



### Automatic Nucleic Acid Extraction System – *MSBKHS32SWISS*

#### Introduction:

The **MSBKHS32SWISS** is a high-throughput and high-sensitivity automatic nucleic acid purification system. It efficiently performs nucleic acid extraction using **magnetic bead-based technology**, ensuring stable and reliable results. This system is designed with safety features to prevent cross-contamination, providing high-quality nucleic acid extractions. It is compatible with various nucleic acid extraction kits, making it flexible and cost-effective for laboratories.

### Key Features:

- **High Throughput:** Capable of processing up to 32 samples at once.
- **High Sensitivity:** Ensures precise and accurate nucleic acid extraction.
- **Low Cost:** Designed to optimize cost-efficiency while maintaining quality.
- **Efficient Filtration:** Equipped with a **Class II HEPA filter** to prevent aerosol contamination and cross-infection.
- **Safety Gate Design:** Protects the integrity of the samples and ensures user safety.
- **UV Disinfection:** Integrated **8W UV lamp** for sterilization to prevent contamination.
- **Touchscreen Interface:** **10.1-inch capacitive touchscreen** with a Windows system for easy operation.

### Technical Parameters:

- **Model:** MSBKHS32SWISS
- **Extraction Method:** Magnetic bead-based
- **Sample Capacity:** 32 samples per run
- **Processing Volume:** 20 µl to 1000 µl
- **Extraction Time:** 15 to 60 minutes
- **Magnetic Bead Recovery:** ≥98%
- **Extraction Uniformity:** Variation between wells is less than 3%
- **Magnetic Rod Flux:** 4500Gs
- **Temperature Range:** Room Temperature to 100°C with adjustable heating
- **Oscillating Mixing:** Adjustable vertical mixing (low, medium, high)
- **Module Stations:** 2
- **Protection Functions:**
  - Self-check at startup
  - Power-off protection
  - High-temperature alarm

- Over-temperature protection
  - Motor protection
- **Disinfection Method:** 8W UV lamp
- **Illumination:** 3.4W LED lamp
- **Operation Interface:** 10.1-inch touchscreen
- **Project Storage:** Can store more than 1000 projects
- **Ports:** 2 USB ports, optional LAN port
- **Contamination Control:** Class II HEPA filter for aerosol prevention
- **Firmware Updates:** Supports IAP function for online firmware updates
- **Power Supply:** AC 100~240V, 50/60Hz

#### Dimensions & Weight:

- **External Size:** 460 mm (W) × 470 mm (D) × 480 mm (H)
- **Package Size:** 538 mm (W) × 538 mm (D) × 750 mm (H)
- **Gross Weight:** 37 kg

#### Additional Functions:

- **Barcode Scanning:** Optional external barcode scanner for sample identification.
- **Temperature Protection:** The system includes alarms for high temperatures and power-off protection to ensure safety.
- **IAP Function:** Firmware can be updated online, ensuring that the system is always up-to-date with the latest improvements.

This automatic nucleic acid extraction system is ideal for laboratories that require high efficiency, reliability, and safety in nucleic acid purification.