



# Maelstrom™ 9610

High throughput for  
large-scale screening  
purpose



Reference video

## Introduction

With the patented technology which can improve the mixing efficiency of magnetic beads and increase the processing sample volume, M9610 has become one of the most competitive automated DNA/RNA extraction instrument. M9610 can process 96 samples per run. Combined with TANBead extraction reagents, our system is highly affirmed by many medical institutions as it can contribute to large scale sample screening request.

## Specification

ITEM	SPECIFICATION
REF	Maelstrom 9610
Weight (NW)	Approx. 95 kg
Dimensions	87(W)x57.5(L)70(H) cm
Power rating	AC 220-240 Vac, 50/60 Hz, 3.5 A AC 100-120 Vac, 50/60 Hz, 8 A
Fuse	250 V, 5 A
Max. Throughput	96 samples per run
Process. volume	50 $\mu$ l ~ 1,600 $\mu$ l
Spin speed	up to 3,000 rpm
Heater	4 independent heating plates
Magnetic rod	> 3,900 gauss
Display	7-inch touchscreen
UV	UV-C type 4 W
HEPA	E10 Class

## Key features



Can process 96 samples per run to reduce the manpower needed



Patented magnetic beads mixing technology to improve mixing efficiency



Reduce the risk of cross-contamination caused by aerosol generation



Covid Extraction only needs around 15 minutes



Heating plates with independent temperature control to save adjustment time



## Patented Maelstrom Spin Mixing Technology

TANBead Maelstrom product embodies this novel technology and delivers improved performance for applications in molecular diagnostics and life sciences. Maelstrom Series are FDA and CE approved, and the patents are granted in the Canada, China, EU, Korea, Japan, Taiwan, and USA.



### Fully Automated

- Simultaneous processing and purification of DNA, RNA samples
- Automation of complicated manual steps
- Independent temperature control modules ensure stability of purification performance



### Patented Whirl Stirring Mixing Technology

- Processing volume up to 1,600µl
- Spin tips stir magnetic beads at speeds up to 3000 rpm
- Effective prevention of aerosol cross contamination



### Easy Operation

- Intuitive user interface and easy menu navigation
- Parameters can be fine-tuned based on experimental requirements



### Time Saving

- High-throughput: 96 samples can be processed simultaneously
- High stirring efficiency with variable speeds for considerable time savings

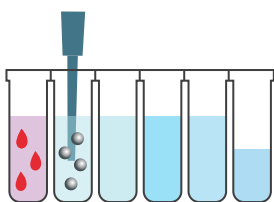


## Principle of Nucleic Acid Extraction

● Sample   ● Bead   ● DNA

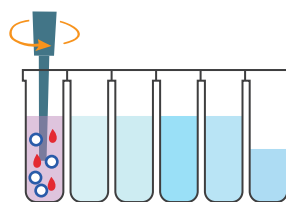
### Step 1

Activate beads



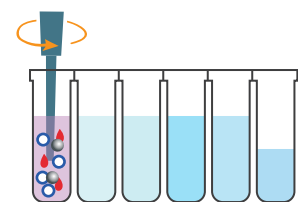
### Step 2

Mix sample with Lysis Buffer



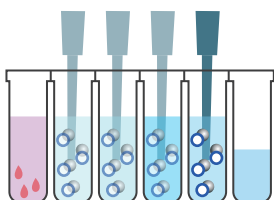
### Step 3

Mix sample with beads



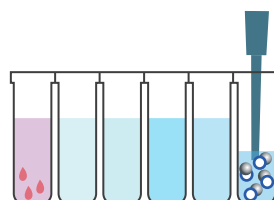
### Step 4

Wash bead-DNA from #2 ~ #5 well



### Step 5

Elute DNA



### Step 6

Release beads

