

## Mini PCR Workstation



### Introductions:

The Mini PCR Work Station is a device that provides safe and environmental protection for the rapid nucleic acid detection process in fever clinic and emergency clinic of hospitals. The equipment is divided into three areas, namely reagent preparation area, specimen preparation area and amplification analysis area. The reagent preparation area is a positive pressure area. The specimen preparation area and amplification analysis area are negative pressure areas.

### Application:

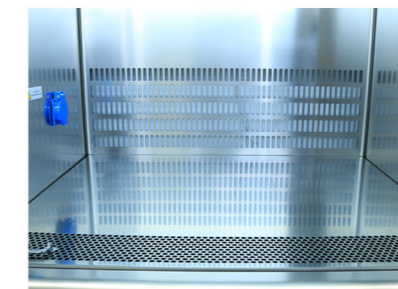
It is suitable for rapid nucleic acid detection in the fever clinic and emergency department of hospital.

### Features:

- \* Small dimension, save space, economical and convenient.
- \* Large LCD display, all information displayed.
- \* Automatic air speed adjustable with filter block.
- \* With memory function in case of power-failure.
- \* Side & back wall is made up of single piece stainless steel.
- \* Interlock function: UV lamp and front window; UV lamp and blower, fluorescent lamp; Blower and front window.
- \* Audio and visual alarm: Filter replacement, window over height, abnormal air flow velocity etc.
- \* Front 7° slanted to offer operator comfort while working for long time, reduce glare and maximize reach into the work area.
- \* Time reserve function: This can set the UV lamp and fan working time.
- \* It is divided into three areas, each area does not interfere with each other; the three areas are closely designed to reduce the sample transfer time between each area and improve the efficiency of rapid nucleic acid detection.



LCD Display



Work Zone



Waterproof Socket

### LCD Display:

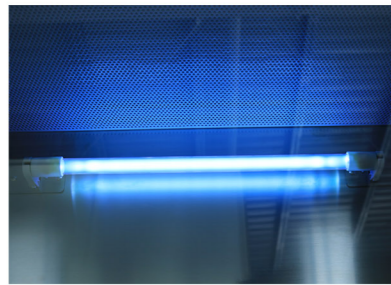
- \* Large Digital LCD display is easy to monitor.
- \* All the safety parameters at a glance and ergonomically sized control panel improves User interface.

### Work Zone:

- \* Work zone is made of 304 stainless steel, Unibody design.

### Waterproof Socket:

- \* 2 waterproof sockets are located in the each area, for optimum convenience of using small devices inside the cabinet.



UV Lamp



Front Window



Windproof Plate

**UV Lamp:**

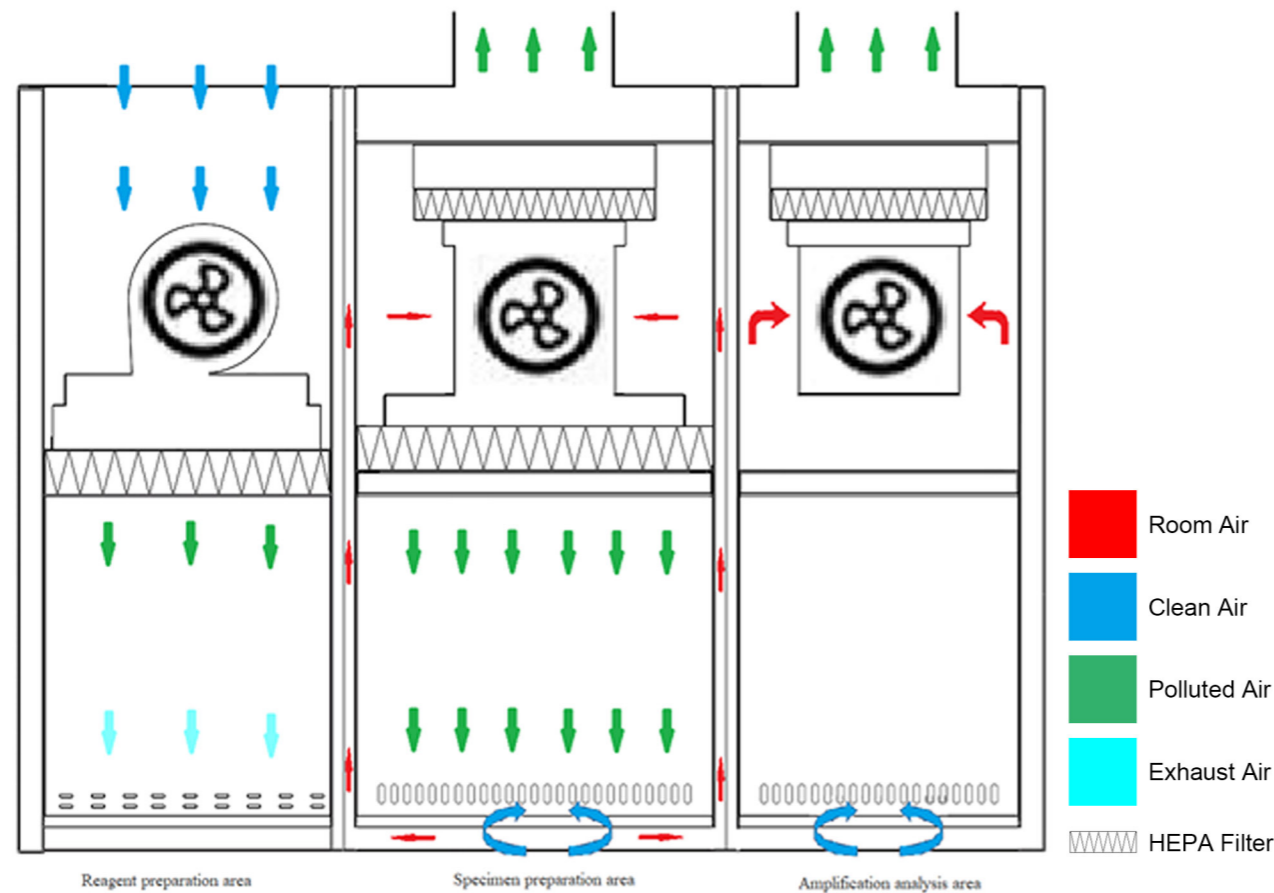
- \* Emission of 253.7 nanometers for most.
- \* Efficient decontamination.

**Front Window:**

- \* Toughened glass >5mm, anti UV.

**Windproof Plate:**

- \* Effectively isolate the cross-effects of airflow in various areas.



**Reagent Preparation Area:**

Positive pressure, vertical laminar flow design, equipped with primary filter and HEPA filter, which can protect the reagent preparation from external pollution and protect the reagent.

**Specimen Preparation Area:**

Negative pressure; the air inlet is through the front window glass door, the bottom of the operation area is returned to the air, and the top is exhausted; the upper and lower two HEPA filters are equipped to protect personnel from harmful aerosol infection and protect samples from external pollution. It can protect samples from cross-infection.

**Amplification Analysis Area:**

Negative pressure, the air inlet is through the front window glass door, the bottom of the operation area is returned to the air, and the top is exhausted, and the HEPA filter can protect both the personnel and the environment. Not infected by harmful aerosols.

**Technical Parameters:**

Model	PCR-MINI		
External Size(L*W*H)	2100*710*1900mm		1600*700*1900mm
Reagent Preparation Area	Operating Area Size (L*W*H)	640*570*510mm	440*570*500mm
	Pressure	Positive	
	Airflow Velocity (m/s)	0.45	
	Airflow Volume (m³/h)	420	310
	Exhaust Type	-	
Specimen Preparation Area	Operating Area Size (L*W*H)	660*570*510mm	560*570*500mm
	Pressure	Negative	
	Airflow Velocity (m/s)	Downflow: 0.33±0.025, Inflow: 0.53±0.025	
	Airflow Volume (m³/h)	250	210
	Exhaust Type	TypeA2, 30% exhaust, 70% recirculation	
Amplification Analysis Area	Operating Area Size (L*W*H)	640*570*510mm	440*570*500mm
	Pressure	Negative	
	Airflow Velocity (m/s)	0.4	
	Airflow Volume (m³/h)	180	160
	Exhaust Type	100% exhaust	
HEPA Filter	Four, 99.999% efficiency at 0.3µm. Filter life indicator.		
Clean Level	Class 100 (ISO Class 5)		
Front Window	Manual, Toughened glass, Anti UV		
Max Opening	380mm		
Noise	≤67 dB (A)		
Vibration	≤5µm		
UV Lamp	15W*3, UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination		
LED Lamp	8W*3		
Illumination(lx)	≥650 (Each area)		
Sockets	The load of two sockets (Each area): 500W, total 6 sockets		
Display	LCD		
Control System	Microprocessor		

Visual and Audio Alarm	Filter replacement, window over height, abnormal air flow velocity	
Work Surface Height	750 mm	
Material	Work Zone: 304 stainless steel	
	Main Body: Cold-rolled steel with anti-bacteria powder coating	
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz	
Consumption	500W	
Standard Accessory	LED lamp*3, UV lamp*4, Windproof plate*2, Waterproof sockets*6	
Package Size(W*D*H)	2240*970*1450mm	1750*980*1440mm
Gross Weight	450kg	330kg

**Mini PCR Workstation Equipment List:**

Area	Name	Model	Quantity
Reagent Preparation Area	Pipette	0.5-10ul	1
	Pipette	10-100ul	1
	Pipette	100-1000ul	1
	Centrifuge	MINI-7	1
	Mixer	MX-S	1
Specimen Preparation Area	Pipette	10-100ul	1
	Centrifuge	MINI-7	1
	Mixer	MX-S	1
Amplification Analysis Area	QPCR	FQD-96A	1