

Multifunctional Workstation



Introductions:

The Multifunctional workstation is the world's exclusive nucleic acid detection workstation, specially developed for fever clinics and small clinical laboratories. Integrate traditional PCR laboratory functions into one device. Allow more small laboratories to have PCR detection capabilities.

Application:

It is suitable for rapid nucleic acid detection in the fever clinic and emergency department of hospital, other small clinical laboratories.

Features:

- * Global exclusive
- * Small dimension, save space, economical and convenient.
- * Automatic air speed adjustable with filter block.
- * With memory function in case of power-failure.
- * 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.
- * Time reserve function: This can set the UV lamp and fan working time.



LCD Display



Work Zone



Waterproof Socket

LCD Display:

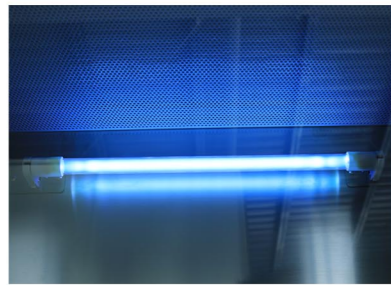
- * Large Digital LCD display is easy to monitor.
- * All the safety parameters at a glance and ergonomically sized control panel improves User interface.

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:

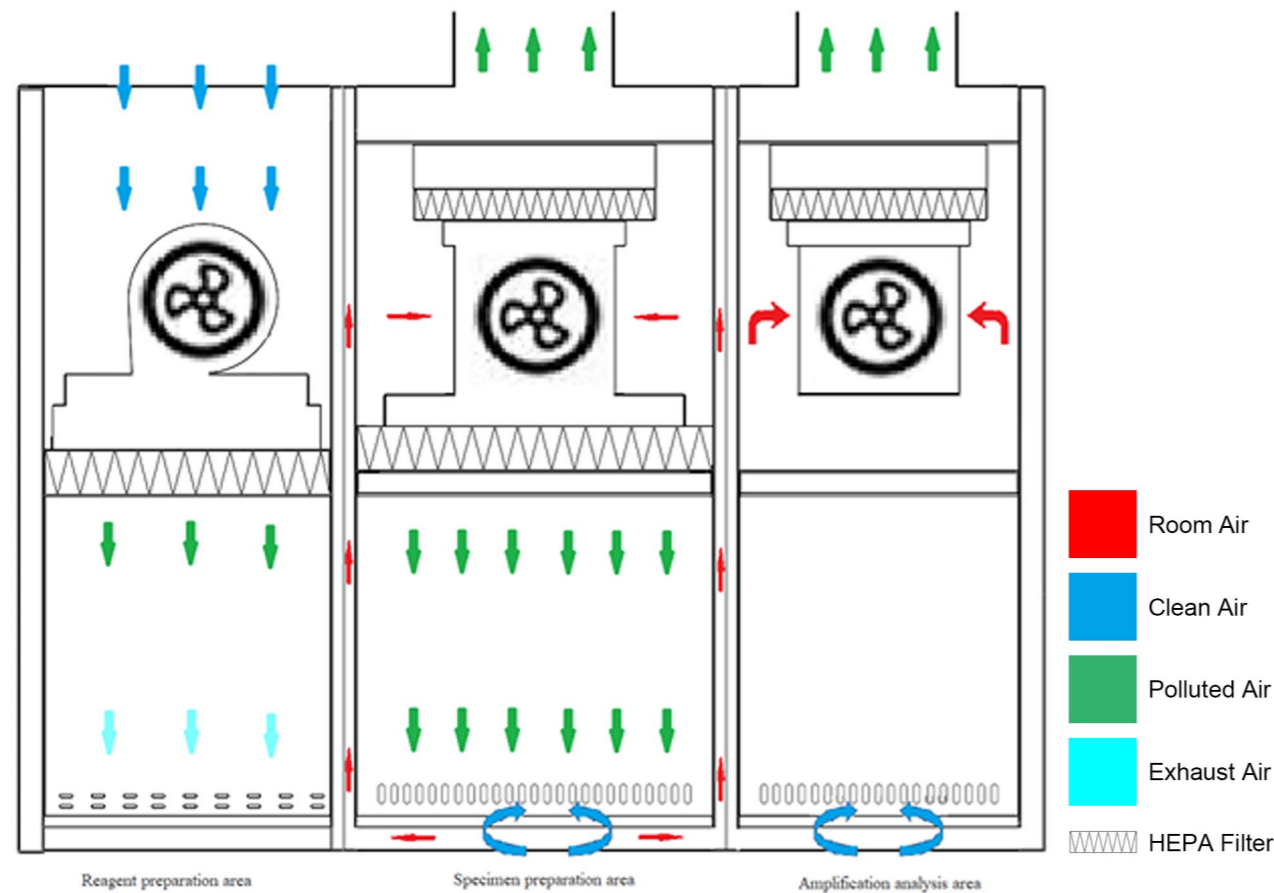
- * Emission of 253.7 nanometers for most.
- * Efficient decontamination.

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.

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.

Technical Parameters:

Model	PCR1600	PCR2100	PCR2500	
External Size(L*W*H)	1600*710*1900mm	2100*710*2000mm	2500*850*2100mm	
Reagent Preparation Area	Operating Area Size (L*W*H)	440*560*510mm	640*560*510mm	640*560*610mm
	Pressure	Positive		
	Airflow Velocity (m/s)	0.3~0.45		
	Airflow Volume (m³/h)	190~290	290~430	380~560
	Exhaust Type	/		
Specimen Preparation Area	Operating Area Size (L*W*H)	560*560*510mm	660*560*510mm	1060*560*610mm
	Pressure	Negative		
	Airflow Velocity (m/s)	Downflow: 0.33±0.025, Inflow: 0.53±0.025		
	Airflow Volume (m³/h)	210	250	400
	Exhaust Type	TypeA2, 30% exhaust, 70% recirculation		
Amplification Analysis Area	Operating Area Size (L*W*H)	440*560*510mm	640*560*510mm	640*560*610mm
	Pressure	Negative		
	Airflow Velocity (m/s)	≥0.4		
	Airflow Volume (m³/h)	≥160	≥180	≥180
	Exhaust Type	30% exhaust, 70% recirculation	100% exhaust	100% exhaust
ULPA Filter	Four, 99.999% efficiency at 0.12µm.			
Clean Level	Class 100(ISO Class 5)	Class 100, Except Amplification Analysis Area		
Front Window	Manual, Toughened glass, Anti UV			
Max Opening	400mm	480mm		
Noise	≤67 dB (A)			
Vibration	≤5µm			
UV Lamp	15W*3, UV timer, UV life indicator	30W*1, 15W*2		
LED Lamp	4W*6	8W*6	8W*4, 12W*2	
Illumination(lx)	≥500 (Each area)	≥650 (Each area)		
Sockets	The load of two sockets (Each area): 500W, total 6 sockets			
Display	Touch Screen			
Control System	Microprocessor			

Model	PCR1600	PCR2100	PCR2500
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	600W, total 2100W (With load)	1000W, total 2500W	
Standard Accessory	LED lamp*6, UV lamp*4, Windproof plate*2 (Only for PCR2100/2500), Waterproof sockets*6		
Package Size(W*D*H)	1750*980*1400mm	2250*980*1400mm	2650*1120*1400mm
Gross Weight	400kg	450kg	500kg

Mini PCR Workstation Equipment List:

Item	Name	Model	Quantity
Reagent preparation area	Pipette	0.5-10ul	1
	Pipette	10-100ul	1
	Pipette	100-1000ul	1
	Centrifuge	MINI-7	1
	Mixer	BJPX-VW	1
	Tips	10ul,100ul, 1000ul	/
	Centrifuge tube	1.5ml	/
	8-strip tube	0.2ml	/
	QPCR kit	Covid-19	/
	Specimen preparation area	Pipette	0.5-10ul
Pipette		10-100ul	1
Pipette		100-1000ul	1
Disposable Virus Sampling Collector (One Step method)		/	/
Tips		10ul,100ul, 1000ul	/
Centrifuge tube		1.5ml	/
Centrifuge		MINI-7	1
Mixer		BJPX-VW	1
Nucleic Acid Extraction System (only for PCR2500)		BNP32 or BNP8	1
Amplification analysis area		QPCR	FQD-96A
Other related equipment	Biosafety Transport Box	BTB-L5	1
	-25°C Freezer	BDF-25V270	1
	-86°C Freezer	BDF-86V158	1