



HONGJIN TEST

Manufacturers of Testing Machines

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Particle filtration performance tester

Model: HJ-C02

Description

Particulate filtration performance test bench, suitable for testing the efficiency of 45% -99.9% grade filter material, and test the filter material according to international standards. The design structure of the entire test bench is compact and light, and in the process of running the test, it only needs to provide additional suitable power and compressed air (no water, no oil), suitable for use in laboratories, factories and other occasions.

In the filter paper test, the particle counting method is used to measure the counting efficiency. It is recommended to use monodisperse aerosol in the test. The pressure drop measurement should be performed at the specified filtration rate.

Fix the filter paper on the fixture, and the test air volume corresponds to the required filter speed. The aerosol generated by the aerosol generator is adjusted, then electrostatically neutralized (PSL), and then evenly mixed with the filtered test air, and then enters the test area to penetrate the filter material.

In addition, the resistance of the filter material during the test must be measured and the flow rate adjusted manually.

The product conforms to JJF1190-2008 "Dust Particle Counter Calibration Specification"

Standard: GB / T 32610-2016 Technical Specifications of Daily Protective Masks



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	GB 2626-2006 Respiratory protective equipment-Self-priming filter type anti-particulate respirator GB 19082-2009 Technical requirements for medical disposable protective clothing GB 19083-2010 Technical requirements for medical protective masks YY 0969-2013 disposable medical masks YY 0469-2011 medical surgical mask ISO-29463 high-efficiency filters and filter media for removing particulates from the air
component	1. Aerosol generator It is mainly used for experiments requiring high-concentration aerosols. Use 0.3um PSL standard particles. The size of the main particles emitted is $\geq 0.3\mu\text{m}$, accounting for more than 70% of the total. Provide the test particles upstream of the filter material. 2. Particle Counter It is mainly used to monitor the upstream and downstream particle concentration of the measured filter material to obtain the efficiency of the measured filter material. 3. Differential pressure sensor It is mainly used to test the pressure difference (or resistance) of the tested filter material under a certain test flow rate. 4. Stainless steel fixture It is mainly used for the compression and sealing of the tested



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	filter material. 5. Imported air pump Mainly used for the test flow through the filter material, the flow is stable, green and energy saving, and the vibration noise is small. 6. Electrical control and software Equipment circuit control and operation, software calculation and data processing, upstream concentration stability judgment, operation control, parameter setting.	
Function	Filtration efficiency test and air flow resistance: 1. The entire test equipment uses a negative pressure system. 2. Air and aerosol enter through the test chamber, flow through the mask according to the standard, 3. Detect the upstream and downstream concentrations with a laser particle counter to calculate the filtration efficiency. The pressure difference between the upstream and downstream of the outlet cover is detected by the pressure difference gauge. 4. To reach the rated flow through the suction pump. 5. Generate standard aerosol substances by an aerosol generator. 6. The operation of the equipment and the calculation of the efficiency and resistance are calculated through the PLC and the display screen.	
Parameter	Test efficiency range	20%-99.9999%@ $\geq 0.3\mu\text{m}$
	Test area	100cm ²
	Test pressure range	0-500pa



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	Test flow rate of the tested filter material	10-100L / min adjustable)
	Test aerosol type	NACL, DEHS
	Counter sampling flow	2.83L/min $\pm 5\%$
	Particle size display	@ $\geq 0.3\mu\text{m}$, @ $\geq 0.5\mu\text{m}$, @ $\geq 0.7\mu\text{m}$, @ $\geq 1.0\mu\text{m}$, @ $\geq 2.5\mu\text{m}$, @ $\geq 5.0\mu\text{m}$
	Counter laser light source	Laser diode
	Imported air pump	Continuous working stability
	Data memory capacity	1 $\sim$ 1000 sets of measurement data can be exported
	screen display	Color 7 inch touch screen
	printing method	Built-in thermal printer
	power supply	AC 220V / 50Hz
	power	1KW
	Data export interface	USB
	surroundings	Operating environment: 0 $\sim$ 40 $^{\circ}\text{C}$ relative humidity 10 $\sim$ 70%
		Storage environment: 0 $^{\circ}\text{C}$ $\sim$ 45 $^{\circ}\text{C}$ Relative humidity 0 $\sim$ 70%
	Standard accessories	Thermal printing paper, hose (air diameter 8mm), instruction manual, test report, certificate
	Dimensions	Length 800X width 760X height 1250 (mm)
	Material	Shell steel plate paint, test parts SUS304 stainless

		steel
Weight		80Kgs
Warranty		1 year
Accessories		
PSL aerosol generator		
Electrostatic neutralizer		
Thinner		

Product picture



Date report

Date:	2020-06-15 11:25:25
Name:	LP
Project:	OIL
No.:	003
Area:	100 cm ²
Flux:	93.7 L/min Drag: 304 Pa
0.3um(PFE):	99.9133 %
0.5um:	99.9356 %
0.7um:	100.0000 %
1.0um:	100.0000 %
2.5um(BFE/Reference):	100.0000 %
5.0um:	100.0000 %

MATERIAL FILTER TESTER

Granules	Quantity	Efficiency%	Flow L/min	32
≥0.3 μm	140462	98.0041	Obstacle Pa	37
≥0.5 μm	59962	98.5524	Collection at	17
≥0.7 μm	14620	97.6676	Work Time s	46.0
≥1.0 μm	3207	95.2911	Work State	Stop/Run/Stop
≥2.5 μm	258	92.6442	Operating Status	Running/Stop
≥5.0 μm	10	60.0000		

Name: 950 Project: NaCl Lot Number: 111
 Area: 100 cm² Work Output: [OK] [Print] [Exit] [Back] [Home]

No.1

No.2

No.3



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