SX-L1056S1
Filter material filtration performance test stand

summary

The SX-L1056S1 filter efficiency test bench is designed to test filter media with efficiencies ranging from 40% to 99.99995%, in accordance with international standards for testing filter media and filters.
The entire test bench is compact and lightweight, requiring only an appropriate power supply and compressed air (dry and oil-free) during operation, making it suitable for use in laboratories, factories, and other settings.

reference standard

JGT404-2013 Filter material for air filters;
ASHRAE52.22017 Test method for air purification devices for general ventilation
EN779:2012 general ventilation air filters:
EN1822-2009 high efficiency filter filters;
ISO-29463 high efficiency air filters.

parameter

Model	SX-L1056S1
Test efficiency range	40~99.99995%
Test area	100 cm²
Test the pressure range	0~1000pa ±1%FS
Test flow rate of the filter material under test	10~100L/min±3%(overall efficiency)
Test aerosol types	DEHS, NaCl
Counter	Protect the gas sleeve, and the sampling flow is 2.83L/min
Imported air pump	Continuous operation is stable
Data memory capacity	1~1000 sets of measurement data can be exported
Video display	Color 7-inch touch screen
Print mode	Built-in thermal printing
Source	AC 220V/50HZ
Power	1 kw
Data export interface	USB
Environment	Usage environment: 0~40°C relative humidity 10~70% Storage environment: 0°C~45°C relative humidity 0~70%
Standard accessory	Thermal printing paper, tubes (outer diameter 6mm and 15mm) User manual, test report and certificate of conformity
Outline dimension	Length 900x width 850x height 1600 (mm) (estimated)
Material quality	Shell steel paint
Weight	150Kg
Reference standard	JGT 404-2013 GB 2626-2006 EN 1822, etc

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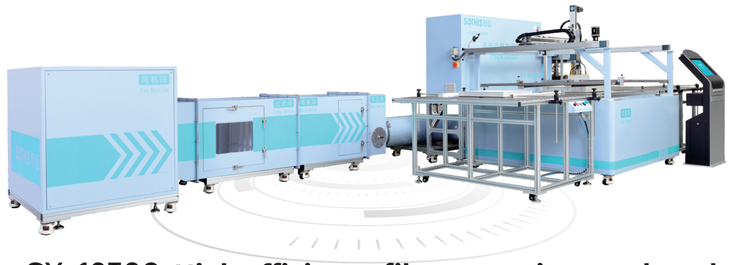

SX-1270C High efficiency filter scanning test bench

summary

SX-L1270C high efficiency filter scanning test bench (hereinafter referred to as the test bench) is designed and manufactured according to the principles and requirements of European standard EN1822-4 and relevant standards.
Under the determined air volume, test the filter's efficiency and resistance, and use an automatic scanning method to detect leaks in the filter. The leak source location can be manually retested.

reference standard

EN 1822:2009 High-efficiency air filters;
GB/T 13554-2020 "High-efficiency Air Filters"; GB/T 6165-2021 "Performance Test Methods for High-efficiency Air Filters-Efficiency and Resistance";
IEST-RP-CC007.2 ULPA Filter Test;
S029463-2011 High-efficiency Air Filters;

parameter

Model	SX-L1270C
Upper monitor	Adopt advanced configuration software system
lower computer	Siemens PLC
Counter	Five large flow laser particle counters
The counter samples the flow	28.3L/min±5%
Counter particle size range	0.3μm、0.5μm、1.0μm、3.0μm、5.0μm、10.0μm
Aerosol	DEHS
Diluter	1:100
The test filter	Flat high efficiency filter
Filter size range	300mmx300mm~1200mmx1200mm
Filter thickness range	50mm~300mm
The range of test efficiency	85%-99.9995%@≥0.3μm
Air volume range	500m³/h-3500m³/h
Resistance range	0~1000pa
Test the uniformity of wind speed at the section	≤10%
Speed of the scanning head	≤5cm/s (adjustable)
Service voltage	Three-phase four-wire: AC380V±5%; frequency 50HZ
Power consumption	10kW
Test bench size	8600x4000x2000mm (length x width x height) (estimated)
Qi diabetes	(Oil-free, water-free): ≥ 0.4MPa

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ISO11155-1
Carriage with filter performance test bench

summary

The overall pipeline system of this test bench is designed strictly according to the IS011155-1 standard, and all parameters of the test bench comply with the standard requirements.
This test bench is primarily used for air filters in passenger carriages. Based on the performance measured according to the test procedures, the filters are classified. In the air filter tests, artificial aerosols or A2 (A4) gray micro-aerosols are used to measure the filtration efficiency of particles ranging from 0.3μm to 1.0μm.
The A2 (A4) gray test evaluates the filter's weight efficiency and dust holding capacity.
The equipment operates under the control of a programmable controller, with measurement values collected, processed, and archived by a computer. Real-time analysis of data and test results is also possible. The equipment achieves full automation in control and measurement, including automatic measurement, recording, and printing of test reports (manual weighing is required for dust holding capacity tests), automatic identifica-

reference standard

This test bench is designed and developed according to 1S011155-1, which can realize:
Test the relationship between filter initial resistance and air volume test the filtration classification efficiency of the filter under rated air volume test the initial resistance of the filter test the dust capacity of the filter

parameter

11155-1 Instrument main parameters table

order number	name	project	technical requirement	remarks
1	flowmeter	Flow range Flow accuracy Measuring range	100~850m³/h ≤±2% 0~1000Pa	refer to IS011155-1
2	pressure differential range	certainty of measurement	0~100Pa±3pa、 100~1000Pa±2%	
4	aerosol gen	grain size	0.3~10μm	refer to IS011155-1
5	grain size	grain size	0.3~10μm At least five levels	1、refer toIS011155 2、Standard recommendation: 0.3μm、0.5μm、1μm、3μm 5μm、10μm
	corpuscular counter	Grain size range volume flow power dissipation	0.3 μm - 10 μm 2.83 l/min 100w	
10	trunk line		Material: stainless steel or steel plate baked paint Size:600*600mm Flow resistance relationship	
12	Test items		Fractional efficiency Efficiency of weighing Dust containing capacity	refer to IS011155-1
13	Overall power		6.5KW	
14	Test bench size		4500×3000×3300(mm)	