SOTHIS 苏信
Focus on integrated solutions for filtration testing
Our promise is forever

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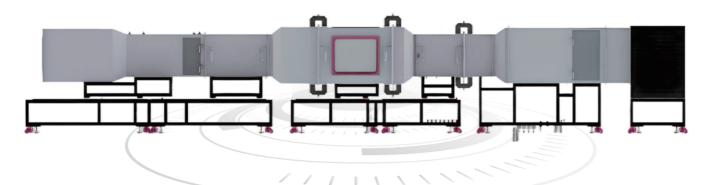Focus on integrated solutions for filtration testing
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SX-Q1351 General ventilation filter test stand

summary

The SX-Q1351 filter test platform is developed according to European standards 11155-1, EN779, ISO 16890 and other standards, which solves the problem of expensive imported filter test platform, meets the demands of domestic small and medium-sized enterprises, and provides conditions for the popularization of filter test platform.

merit

1、compact structure, small footprint, simple installation
2、fixture structure design is unique, can achieve a variety of different specifications of filter clamping,
3、Adopt automatic control, stable performance and simple operation.

function

It can realize the initial resistance of the filter, counting efficiency (test particle size 0.3μm), flow resistance curve and other routine project detection, automatically generate detection report, and can realize data storage and printing.

parameter

1、Adjustable range of test air volume: 500-3500m3/h
2、Test air volume error: less than ±3%
3、Resistance detection range: 0-500Pa
4、Yangli test repeatability: 0-100pa ≤ ±2Pa> 100Pa ≤ ±3%
5、Aerosol substances: DEHS or KCL

1822-5 High efficiency filter test bench

summary

The MPPS high-efficiency filter scanning test bench is designed and manufactured according to the principles and requirements of European Standard EN1822-5, in accordance with relevant standards. It can test the efficiency and resistance of filters under rated air volume conditions. The core of the test bench is particle counting, using a dust source that is a liquid aerosol (DEHS) with a concentration of 0.1-0.3μm.

parameter

1、power supply voltage: single phase AC220V+5%; three phase AC380V+5%; power consumption is about 15kW
2、Power supply frequency: 50Hz±2HZ   3、Applicable filter grade: high efficiency filter
4、Aerosol particles: DEHS   5、Aerosol particle size: 0.1-0.3μm
6、Test efficiency: (H13-U17) Note: 99.95%-99.999995%, MPPS
7、Test resistance: range 0-1000Pa

Technical parameters of MPPS test bench

Flow: 500-3500m3/h (refer to EN1822-5).
Adjustment error: adjustment accuracy is less than or equal to 2% resistance measurement range: 0-500Pa
Resistance: Measurement repeatability error is 50-100Pa±2Pa,>100Pa≤3% (rated flow)
Efficiency range: (H13-U17) (refer to EN1822-5)
Counter sampling flow: 28.3L/min±5%
The detection particle size range is 0.1-0.3μm
Size of the filter to be tested: maximum: 630 (length) x630 (width) minimum: 300 (length) x300 (width) According to the size of the customer's product (the size between the maximum and minimum values can be tested by changing the test fixture)
Data output: printer
Power consumption: 15KW
Floor area: Main body, 13000x3000x3000 length x width x height (mm) (estimated)

function

1、Detection of filtration efficiency (MPPS)   2、Check the filtration resistance   3、Flow resistance curve

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SX-16890 General ventilation test stand

summary

According to the ISO16890-2016 standard, the test bench is primarily used for testing general ventilation air filters. Based on the performance results from the test procedures, the filters are classified (ePM). In air filter tests, two types of artificial aerosols are used: oily and salty aerosols are used to measure the comprehensive efficiency of particle sizes ranging from 0.3μm to 10μm, while coarse aerosols (artificial dust) are used to determine the test dust volume and weight efficiency.

superiority

1、All key instruments are imported brands, and the data is accurate during testing.

2、The installation fixture adopts pneumatic sealing, which is convenient and quick.

3、The test pipeline adopts a rotating structure, which makes it more convenient to install the filter.

4、Fluid analysis is used for airflow simulation in pipeline design, and the design structure can better meet the test standards.

parameter

Model	SX-16890
Flow range	600~5400m³/h
Measurement error	≤±2%
Resistance range	0~500pa
Accuracy of measuring device	0~70pa≤±2Pa，>70Pa≤±3%
Aerosol uniformity	≤±15%
Initial efficiency repeatability	<40%≤±30%
Particle concentration indication error	40%~60%≤±15%
	60%~80%≤±8%
	80%~90%≤±4%
	90%~99%≤±2%
Scope of efficiency	ePM1 ≤99%（overall efficiency）
Overall power consumption	18KW
Trunk line	Square: 610x610mm, material: 304 stainless steel
Floor space	13000×2500×2500（mm）(Length x width x height)
Filter efficiency	1. Filter resistance 2. DEHS counting efficiency (PM1) 3. KCL counting efficiency (PM2.5, PM10) 4. Weighing efficiency
Filtration resistance	Flow-resistance curve
Dust containing capacity	Final filter life test
Counter	PALAS, Promo2000, sampling flow: 5L/min±5%