

ZR-2002 Intelligent Air Microbial Sampler

01

Overview



Intelligent air microbial sampler, six-stage Anderson sampler simulates the structure of the human respiratory tract. Based on aerodynamics, microbial particles suspended in the air are collected on the surface of the sampling medium in order of size. These samples were processed and analyzed to yield bacterial and fungal colony forming units per cubic meter of air for each of the sampling devices.



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Features



Intelligent air microbial sampler can be used for sampling of planktonic bacteria, fungi, biological aerosols, etc, widely used in BIOSAFETY CABINET & CLEAN ROOM.



Pharmaceutical Industry



Medical And Health



Biological Laboratory



Food Industry

- ✔ Easy to operate and high accuracy.
- ✔ High automation, unmanned.
- ✔ Equipped with Anderson sampler, Impinger to different fields.
- ✔ Built in lithium battery, ≥4 hours once charge.
- ✔ Large data storage and data print.
- ✔ 4.3 inch OLED screen.
- ✔ Two-stage Anderson sampler, Eight-stage Anderson sampler can be supported. (optional)



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Technical Parameter



Parameter	Range	Resolution	Error
Sampling flowrate	(0~50)L/min	0.1L/min	±2.5%
Flowmeter pressure	(-30~0)kPa	0.01kPa	±2.5%
Capture Rate	≥98%		
Data Storage	> 50000 groups		
Data Export	U Disk, Blue-tooth printer		
Battery	>4h		
Host Size	(L300×W190×H200)mm		
Weight	About 6kg		
Power Supply	AC(220 V±22)V, (50+1)HZ		
Noise	<62dB(A)		
Consumption	<150W		
Working condition	(80~130)kPa / (-20~50)°C / (0-95%)% RH		

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Accessories



Six-stage Anderson sampler, monitor the concentration and particle size distribution of bacteria and fungi to truly simulate human lungs.

Stage	Aperture	Capture particle range
1 st stage	1.18mm	>7.0um
2 nd stage	0.91mm	4.7um-7.0um
3 rd stage	0.71mm	3.3um-4.7um
4 th stage	0.53mm	2.1um-3.3um
5 th stage	0.34mm	1.1um-2.1um
6 th stage	0.25mm	0.65um-1.1um

STAGE NO.
JET SIZE
JET VELOCITY

STAGE 1
0.0465" DIA
3.54 FT/SEC

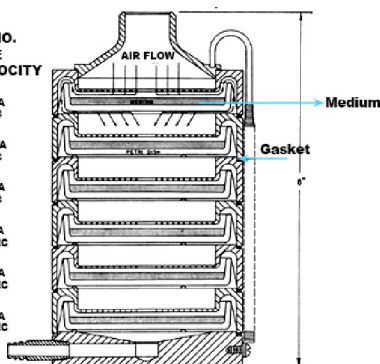
STAGE 2
0.0360" DIA
5.89 FT/SEC

STAGE 3
0.0280" DIA
9.74 FT/SEC

STAGE 4
0.0210" DIA
17.31 FT/SEC

STAGE 5
0.0135" DIA
41.92 FT/SEC

STAGE 6
0.0100" DIA
76.40 FT/SEC



Impinger, Impinging a stream of the suspension on a surface or in a liquid (as water) in air.