AM100ST Air Bacteria Sampler

The air suction flow rate of AM100ST is 100 L/H. Each collection cycle can collect up to 9999 liters. This performance enables sampling to be carried out under strict requirements for monitoring sterile and clean rooms. The impact speed (the speed at which microorganisms in the air impact the surface of agar) is approximately 10 m/s, equivalent to level 5 of the Andersen sampler.

Note: AM100ST reference standard: ISO 14698-1/2, GMP, GB16293-2010
The sampling speed is 100L ± 2.5%, and the diameter of the culture dish used is 90-100mm.

Basic Principle

The AM100ST is a high-performance instrument. It utilizes the principle of Andersen air sampler to extract air through a multi hole cover (465 * 0.6mm), and microorganisms in the airflow collide with the surface of the agar medium attached to the standard culture dish. After completing the sampling cycle, culture the dish under suitable conditions and then determine the total number of colonies.

Main Characteristics

1. Suitable for standard plates with a diameter of 90-100mm
2. With built in flow calibration function and temperature & humidity calibration function (required to be used with a planktonic bacteria calibration instrument which is an optional choice)
3. External Bluetooth printer that can print data information (time, date, temperature and humidity, sampling volume)
4. Adjustable sampling head support clip to fit the size difference of different plates (90-100mm)
5. Can be connected to a 100/240V, 50-60kHz working power supply for operation, or only use batteries for operation
6. The sampling volume can be set to any value between 1-9999L
7. Fully automatic sampling accuracy calibration to avoid manual operation errors

Technical Parameters

Model	AM100ST
Sampling flow rate	100L/MIN±2.5%
Sampling delay	0-255 S / adjustable
Sampling volume	0-9999L / adjustable
Impact rate	10.8 m/s
Sampling head material	Anodized aluminum oxide, suitable for most disinfection methods
Battery using time	More than 5 hours
Overall dimension L×W×H	120×120×175mm
Weight	2.1Kg
Executive standards: ISO 14698-1/2, GB/T 16293-2010, GMP	