



CJ/HS Series

Laminar Flow Cabinet

User Manual



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I. Introduction

With the rapid development of science and technology, the clean technology of air has already been widely used in laboratories, electronic technologies, Aero-Spaces, bio-pharmaceuticals, especially some scientific research production division as medical food etc. it is a kind of perfect part air purification equipment which offering the high clean working environment.

The Laminar Flow Cabinet is divided into three kinds: the standard type, the medical use type, living beings type. All of these offer part air purifying working environment that is non-dust and non-microorganisms. It can improve working conditions, and guarantee the precision of products; the high purity and high dependability have good results.

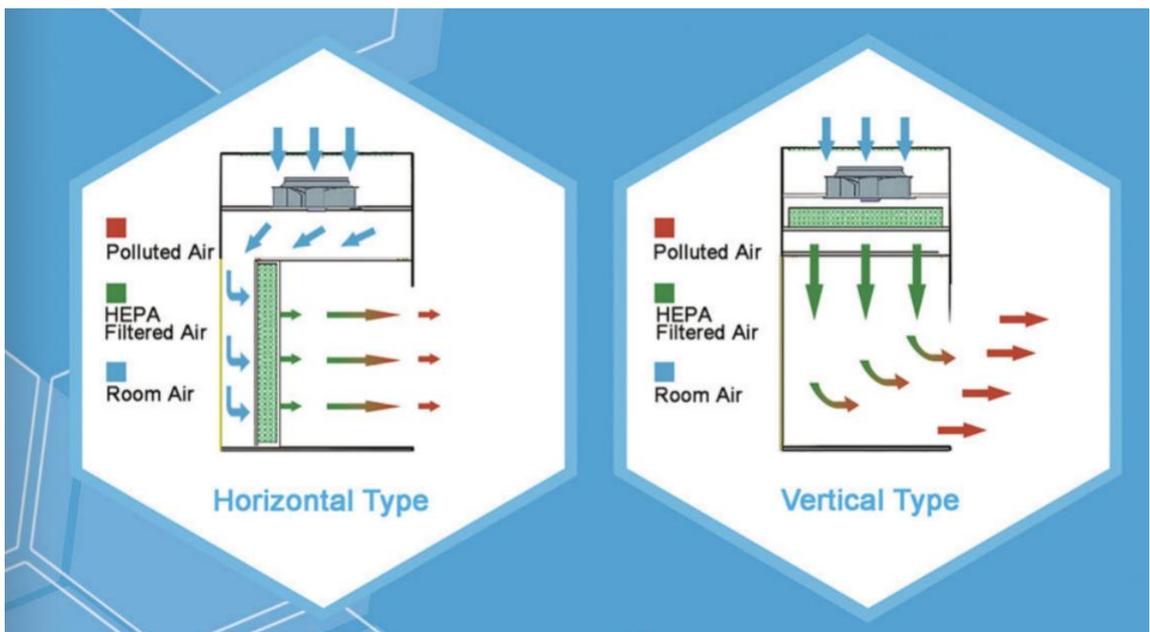
II. Specification

Model		AE-CJ-1D	AE-CJ-1S	AE-CJ-2D	AE-CJ-2S	AE-HS 840	AE-HS1300
Inner Chamber Size (mm)	Width	920	920	1320	1320	660	1120
	Depth	580	630	580	630	650	660
	Height	550	550	550	550	570	570
Exterior size (mm)	Width	1060	1060	1460	1460	840	1300
	Depth	653	703	653	703	825	810
	Height	1734	1734	1734	1734	1430	1440
High-Efficient Filter	Specification	900×500×50	900×550×50	1300×500×50	1300×500×50	760×610×50	610×610×50
	Quantity	1	1	1	1	1	2
Fluorescent light lamp	Specification	16W	16W	24W	24W	16W	24W
	Quantity	2	2	2	2	2	2
Ultraviolet rays lamp	Specification	20W	20W	30W	30W	30W	30W
	Quantity	1	1	1	1	1	1
Operator		Single①	Single x②	Double x①	Double x②	Single x①	Single x②

III. Main Technical Parameters

1. Cleanliness: 100grade \geq 0.5 μ m(US209E)
2. Average wind speed: 0.3-0.6M/S(Adjustable)

3. Noise: $\leq 62\alpha\text{B(A)}$
4. Vibration and semi-peak value: $\leq 3\mu\text{m}(\text{single})$; $\leq 4\mu\text{m}(\text{double})$
5. Illuminance: $\geq 300\text{LX}$
6. Voltage: 220V /50HZ
7. Maximum power dissipation: $\leq 0.4\text{KW}(\text{single})$, $\leq 0.8\text{KW}(\text{double})$
8. Weight: $\leq 160\text{kg}(\text{single})$, $\leq 200\text{kg}(\text{double})$
9. The Speed direction of the two types, please see below:



IV. Working principle

The super Purifying Worktable adopts the horizontal or verticality laminar flow air current form (named one-way). The air passes through thick filter into the negative pressure case, then the shift centrifugal machine presses the air into quiet pressure case, and then undergoes the high-efficient filter to deal the twice filter. The clean air from the high-efficient filter's vent window goes through operation zone with equality wind speed, takes away the dust particle and microorganism particle, thus the aseptic working environment is formed.

V. Characteristics

1. The case body adopts whole steel structure, and the surface is treated by spraying. At the top of the case, there are bellows and quiet press case, there are high-efficient filter in the quiet press case.
2. The worktable adopts air blower system with adjustable wind speed. The light-touching switch regulates the voltage, can keep the average wind speed of the workspace remain stable within the ideal range, which will prolong the service life of air cleaner, keep it high-efficient, and reduced the operation expenses of the worktable.
3. The mesa of the worktable is made of high-quality stainless steel, which is attractive and durable.
4. The worktable adopts ultraviolet radiation which can radiate the strong 2537 short-wave ultraviolet ray, it not only kill active cell of microorganism, but also kill the bud and others fungus spore, which have the function of resist hot. In addition, the bacteria phage and virus can break rapidly under the ultraviolet.

VI. Installation

1. The worktable should be installed in the clean laboratory or Factory building that away from dust and quiver source. When the worktable setting well, please revolve the leg to make it exert itself, and then regularize the worktable to horizontal.
2. The earth terminal of case must connect the ground reliable.
3. The wind speed of worktable should be adjusted to the best state while dispatching from the factory. It should be adjusted to the low-grade location in the initial stage, and generally improve a files location in half a year.

VII. Uses

1. While using the worktable, start the machine 5 minutes in advance, and turn on the ultraviolet sterilization light. Shut off the sterilization light after 30 minutes, and then turn on the air blower, the operation can be start 20 minutes later, open the fluorescent lamp while operating.
2. If the worktable is newly installed or has not been used for a long time, clean it and surrounding environment with dust catcher or the tool that will not produce fiber before using, and then use medicine sterilization or the ultraviolet sterilization method to deal with sterilization.

NOTE (New Function):

1. Filter lifetime :
2. When the fan runs for 2500 hours, the indicator light and gear of the fan will flash when the fan is running, indicating that the user needs to change the filter.
3. After changing the filter, the user may press the "Fan" button for 5 seconds until the four lights in the middle of the indicator bar are lit at the same time. At this time, the "Fan" button can be released to restore the normal working state.
4. Sterilization lamp lifetime:
5. When the sterilization lamp is opened for 1000 hours, the sterilization indicator will flash when the sterilization lamp is opened, indicating that the user needs to replace the sterilization lamp.
6. After the user changes the sterilization lamp, he/she may press the "sterilization" button for 5 seconds until the four lights in the middle of the indicator bar are lit at the same time. At this time, the "sterilization" button can be released to restore the normal working state.

VIII. Maintenance

1. According to clean degree of environment, dismount the filter cloth to wash or change periodic (usual two-three months).

2. Sterilize the environment periodically (usual one week), Use the gauze with alcohol to sterilization constantly. At the same time, keep the surface clean. Otherwise, it will influence sterilization result.
3. When the wind file is adjusted to the highest degree, the wind speed in the operation region will not reach 0.3m/s, so change the high-efficient air filter.
4. While changing the high-efficient filter, open the top cover, pay attention to the arrow sign on the filter, the direction of arrow indicates the laminar flow. Check carefully while changing the filter, make sure the frame is sealed well all around; otherwise, the filter result will be influenced.
5. Change the light and ultraviolet sterilization light when they reach service life.

IX. Fault treatment

Phenomena	Cause	Treatment
No power supply	1. The plug and socket are poorly connected 2. The fuse is burnt.	1. Adjust the plug and socket, or check the circuit. 2. Change the fuse.
The air blower does not work	The control does not work or the air blower breaks down.	Change the control panel or check the air blower.
The light does not work	The light socket is broken down. The light tube is burnt.	Adjust the lamp socket or change the light tube.
Cannot reach required wind speed	The high-efficient filter wears out.	Change the filter.

X. Storage

Keep it in dry environment with good ventilation, the gradient should be kept less than 45 degrees while carrying, forbid keeping flat or handstand.