

User Manual



Please read operating manual before installation and operation.

Drawell International Technology Limited

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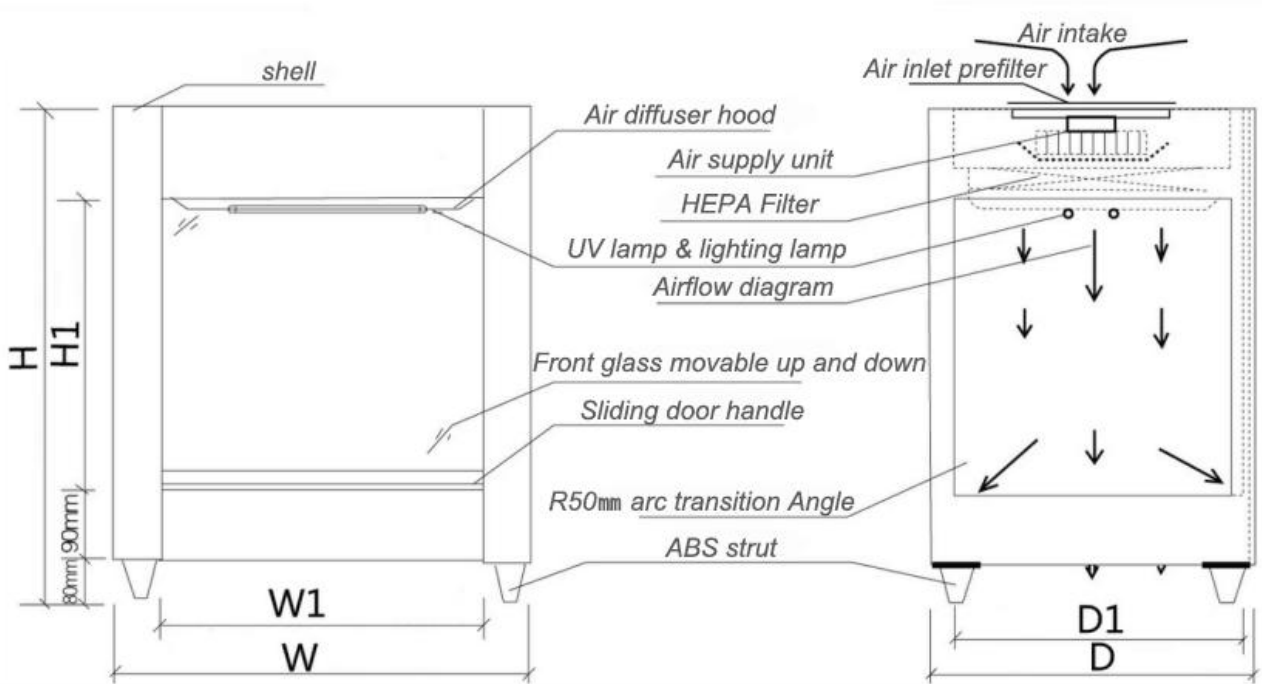
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1. Brief introduction

1. Adopting arbitrary positioning sliding door system.
2. The shell is made of cold plate electrostatic spray, and the work surface is SUS304 brushed stainless steel, which is corrosion-resistant and easy to clean.
3. Safety interlock between lighting and sterilization system.
4. Wireless controller, adjustable speed in two speeds, more user-friendly design.
5. The vertical quasi-closed table top and the formation of a downward flow air curtain in the operation room can effectively prevent the input of external air and the operation area is clean.
6. Equipped with HEPA high-efficiency air filter, with primary filter for preliminary filtration, which can effectively extend the service life of the high-efficiency filter.



2. Technical specification

Model	VD-650
Technical	VD-650
Clean level	Class 100 @ $\geq 0.5\mu\text{M}$ (The US federal 209E)
Clump count	$\leq 0.5 \uparrow / \text{dish} \cdot \text{h}$ ($\Phi 90\text{mm}$ dish)
Average wind Speed	0.25~0.45m/s
Noise	$\leq 62\text{dB}$ (A)
Vibration in Half-Peak	$\leq 5\mu\text{M}$ (x、y、z direction)
Illuminance	$\geq 300\text{Lx}$

Voltage		AC sing phase220V/50Hz
Work size	W1×D1×H1	490×490×490
Overall size	W×D×H	650×530×850
Hepa filter size and Qty.		475×410×38×①
fluorescent lamp/UV size and Qty.		5W×①/10W×①

3.Structural Characteristics Of

Laminar flow cabinet: by several major components of the cabinet, fan and high efficiency filters, operating switches, etc. Box cold plate production, surface spray treatment, work tops, stainless steel. Purification unit uses a variable air volume fan system, by adjusting the fan working status, can the average wind speed to maintain a clean work area within the rated range, and effectively extend the life of the high efficiency filter.

4.Working Principle

By The Centrifugal fan pressure air through the primary filter, into the plenum chamber, and then after a hepa filtered from the blowing of the wind surface, clean air, clean air flow to the uniform cross-section wind speed through the clean area, the region the dust away, thus forming a work environment of high cleanliness.

5.Installation

The laminar flow cabinet in place locations in the environment is relatively clean work room (preferably placed between the primary purification of one hundred thousand grade or three hundred thousand grade), plug in the power, as shown in function on the control panel to open the can, deal with purification workspace surface and shell before starting the carefully cleaning to remove surface dust, ten minutes after boot can be implemented normal operation.

6.Maintain

1、 based on actual usage, periodically remove the primary filter cleaning, the cleaning cycle is generally 3-6 months. (if not long-term cleaning, the dust will affect the amount of wind insufficient to reduce the cleaning effect.)

2、 when the early effect of the normal exchange or clean the filter air filter, still can not achieve the desired cross-section wind speed, then adjust the fan voltage, and thus achieve the desired uniform wind speed.

3、 generally when the fan operating voltage adjustment to the highest point in the use of eighteen, still can not achieve the desired wind speed, description of the filter on the high efficiency filter dust too much (filter kong has basically stuck to timely update) general efficiency air filters use a period of eighteen months.

4、 replacement of high efficiency air filters, should pay attention to the correctness of the model dimensions (original manufacturer configuration), arrow wind devices, and pay attention to the peripheral sealing of the filter is absolutely no leakage occurs.

7.General Failure, Causes, And Troubleshooting

Failure phenomenon	Reason	Remedy
Total power switch is not close automatically trip	1、 fan stuck lead to motor stall, or short-circuit lines	1、 adjust the fan air shaft position, or replace the impeller and bearings, check the line is intact. 2、 the control circuit diagram, point by point inspection line components of the shell insulation resistance, and repair insulation failure.
Wind speed is low	1、 a primary filter too much dust. 2、 the high efficiency filter failure.	1、 the beginning of the cleaning efficiency of the filter. 2、 the replacement of high efficiency filter.
Fan does not turn	1、 the contact does not work. 2、 the fan power fuse has blown.	1、 check the contact line is normal. 2、 replace the fuse.
Fluorescent lamp is not lit	1、 a lamp or relay damage.	1、 replace the lamp or relay.

	2、 the lamp power supply fuse has blown.	2、 replace the fuse.
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Fan does not turn	<p>1、 the contact does not work.</p> <p>2、 the fan power fuse has blown.</p>	<p>1、 check the contact line is normal.</p> <p>2、 replace the fuse.</p>
Fluorescent lamp is not lit	<p>1、 a lamp or relay damage.</p> <p>2、 the lamp power supply fuse has blown.</p>	<p>1、 replace the lamp or relay.</p> <p>2、 replace the fuse.</p>

8 Remote control instructions

A. Remote control panel



B.Buttons function instruction:

Button 1 is the speed fast speed button. If you need to adjust the speed or close the speed fast speed, you only need to press 1 again.

Button 2, for wind speed slow gear button, close only need to press 2 again;

Button 3, UV lamp switch button;

Button 4, light switch button;

Button ON, turn ON the button, automatically turn ON the fast speed wind speed after turning ON, and directly press 1 to turn off the fan.

Button OFF, shutdown button, all functions shut down directly press OFF

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