

DPS HVE Aerosol Evacuation Unit

Instruction Manual



Thank you for purchasing our DPS HVE aerosol suction machine.

Please read this manual carefully before use and keep it for future reference

CONTENT

MACHINE	1
CONTENT.....	2
OVERVIEW.....	3
SPECIFICATIONS.....	3
PRODUCT FEATURES.....	3
PACKING LIST.....	4
FILTERS.....	5
STRUCTURE.....	6
INSTALLATION INSTRUCTIONS.....	7
CONTROL PANEL AND REMOTE CONTROL.....	7
FAQ AND SOLUTIONS.....	8

OVERVIEW

This product is a mobile extra-oral suction machine, which quickly filters spray, aerosol, viruses, bacteria, and other harmful substances during treatment, by utilizing the high negative pressure produced by a brushless direct current motor.

The first step is using a washable primary cotton filter and secondary water vapour absorbing filter to effectively filter out spray, thin blood, and other large particles during the treatment.

Third is the suction filter element.

The fourth step is to filter out 99.97% of the smell and aerosol through the customized H13 HEPA highly efficient filter and active carbon filter.

The last step is through the UVC photo oxygen catalytic sterilization module, which sterilizes and expels it to the outside.

In conclusion, this product can make the air clean and fresh, improve the cleanliness of the treatment environment, reduce the rate of viral cross-infection, and thus achieve the goal of fighting infection.

SPECIFICATIONS

Voltage	AC220V 50Hz
Power	300W
Air volume	300m ³ /h
Noise	<55db(A)
Filtration	0.3um 99.97%
Length of tube	1.4 Meters
Size	L300xW300xH450mm
Weight	20kg
Size of flange	75mm

PRODUCT FEATURES

CENTRIFUGAL FAN

The fan has a brushless direct current motor with a maximum service life of 40 thousand hours.

No maintenance is required. It is highly reliable, with low operating noise, high rotation speed, high air volume, high air pressure, and high efficiency.

LCD DISPLAY

LCD display with simple operating parameters. The mode of the fan is automatically checked. When the pipe is blocked, a filter saturated, or any other situations, the system will automatically alarm with a signal and a sound and operates at low-pressure power to improve safety.

REMOTE CONTROL

The remote control functions are on-off instructions, accelerate and decelerate, timed shutdown functions.

FILTERS

There are five levels and five layers of filter systems:

Washable primary effective filter, Primary filter cotton , Suction filter element, H13 HEPA +Active carbon filter, and UVC Negative ions photo oxygen catalytic sterilization system.

The first step is using a washable primary cotton filter and secondary water vapour absorbing filter to effectively filter out spray, thin blood, scraps, and other large particles during the treatment.

The third is the suction filter element

The fourth step is to filter out 99.97% of the smell and aerosol through customized H13 HEPA highly efficient filter and active carbon filter.

The last step is through the UVC photo oxygen catalytic sterilization module, which sterilizes and expels it to the outside. Tower-like filters to purify the air.

PACKING LIST

Description	Quantity	Size
Main machine	1 set	L300xW300xH450mm
Power cord	1 piece	1.8 metres
Smoking tube	1 piece	1.4 meters Folding arm
User's manual	1 book	
Washable primary effective filter	2 pieces	L220xW100xH20mm
Primary filter cotton	1 piece	L220xW100xH10mm
Suction filter element	1 piece	W200xH220mm
H13 HEPA +Active carbon filter	1 piece	W155xH220mm
UVC lamp	2 piece	6w
Negative ions	1 piece	
The remote control	1 piece	
Smoke hood	1 piece	W110xH60mm
	1 piece	W140xH60mm

Note: The filter element is placed inside the machine

FILTERS

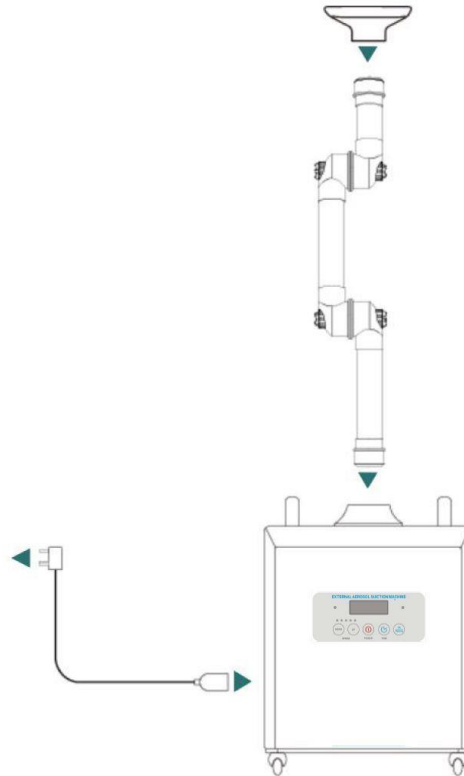
	DPS-HVE Filters	Replace		
	H13 Hepa Filter + active carbon	6-8 months		
	Suction Filter element	3-6 months		
	Primary filter cotton (white) pack of 5	7-15 days		
	Washable primary effective filter (black) pack of 2	7-15 days		
	UVC lamp	8000 hours		

STRUCTURE

- 1 Air Inlet
- 2 Control panel
- 3 Lifting handle
- 4 Filter's door
- 5 Three-in-one switch
- 6 Filters door latch plate
- 7 Universal wheel



INSTALLATION INSTRUCTIONS



1. Insert trunk into top of machine. Use screws to fix in place. Adjust angles of arm by unscrewing the nuts and pulling the joint apart, turn it into the required position and re screw the nut.
2. Insert one end of the power cord to the unit and the other end to an electrical outlet.
3. Switch the machine on.

Note: Try to make the nozzle face the mouth while using the machine to improve the suction efficiency. 15 cm is the optimum distance.

CONTROL PANEL & REMOTE CONTROL



A. power on key

Standby switch of the whole machine, press down the power switch and the control panel will be energized, and the whole machine will start to operate. When the control panel light's off, the machine stops running. (note: if you need to shut down for a long time, please turn off the main power switch or unplug the power cord).

B. Air volume increase key

When the machine is running, press this button to increase the LED display number. The maximum is 100, that is, the machine is running at full speed. (the machine has 10 gears).

C. Air volume reduction button

When the machine is running, press this button to reduce the display number of LED screen to 5.010, the minimum is 10, that is, the machine is running at a low speed (the machine has 10 gears).

TIMED SHUTDOWN SETTINGS

When the machine is running, press this key to display the HXXX on the display screen, and then adjust the specific time of timing shutdown according to the increase and decrease of wind speed. When setting the timing, press the timing key again to adjust the shift of the number of times, tens and hundreds. After setting, press the OK setting key to confirm the end of the timing device.

Among them, XXX represents the number of hours the machine operates at a fixed time, with a maximum of 300 hours and a minimum of 1 hour. After setting, press the timing key to query the remaining time of the timing. The display screen displays HXXX. For example, H005 represents the machine will automatically shut down after 5 hours. Set the time to H000 can eliminate the timing.

FAQ AND SOLUTIONS

1: The system is still working, but the air volume is weak, and the suction force is significantly reduced.

Cause : The air intake is blocked, or there is foreign matter in the pipe, and the filter element reaches saturation failure, resulting in a blocking alarm.

Check: turn off the power supply, check whether there is any foreign matter blocking the air intake, and then check whether the air outtake is blocked. If the suction of the air compressor is normal, the filter element needs to be replaced.

2: After the machine starts, it will shut down automatically, repeat the above.

Cause : The internal airflow is blocked, and the filter element resistance is too large, which leads to excessive starting current of the fan, and the machine will automatically protect and shut down.

Check: turn off the power supply and check whether there is any foreign matter blocking the air intake; if there is no abnormality, adjust the air volume to the minimum, restart the machine and adjust the air volume to the appropriate position.

3: Turn on the power switch and the indicator light is not on.

Check whether the socket is in poor contact. If the power socket is in good condition, check whether the fuse in the power box is burnt. If it is damaged, replace the fuse.

Be sure to cut off the power before checking and repairing the equipment!

Supplied by:

DPS, Dental Practice Systems

Tel: 01438 820550

Email: info@dpsdental.co.uk

www.dpsdental.co.uk

