



*Air* SAFER  
Safety in Dentistry



**Instruction  
Manual**  
Aerosol Suction



# Index

Overview	1
Product features	2
Packing list	3
Filters	4
Installation instructions	5
Structure	6
Control panel and remote control	7
Faq and solutions	8
Warranty	9



# Overview

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

The first step is using a way hable primary cotton filter and secondary waterway or absorbing filter to effectively filter out spray, the in blood, scraps, and other large particles during the treatment.

The second step is to filter out 99.97% of the smell and aerosol through customized H13 HEP A 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. 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

<b>Series</b>	Air SAFER 80
<b>Voltage</b>	AC220V 60Hz / AC110V 60Hz
<b>Power</b>	220W
<b>Air volume</b>	340m <sup>3</sup> / h
<b>Noise</b>	≤52db(A)
<b>Filtration</b>	0.3μm 99%
<b>Length of tube</b>	1.4 Meters
<b>Size</b>	L400xW255xH595mm
<b>Weight</b>	24kg
<b>Size of flange</b>	75mm

# Product features

## CENTRIFUGAL FAN

The fan has a brushless direct current motor with a maximum service life of 40 thousand hours. Needless to maintenance. High-reliability assurance. Low operating noise. High rotation speed, high air volume, high air pressure, and high efficiency can be achieved.

## LCD DISPLAY

Independently developed microcomputer LCD with programmable single chip bringing digital control. A simple interface is displaying operating parameters. The mode of the fan is automatically checked. When there is pipe blocked, filter saturated, and other situations, the system will automatically alarm with a signal and a sound. It operates with low-pressure power to improve safety.

## REMOTE CONTROL

This product can remotely control basic on-off instructions, accelerate and decelerate, timed shutdown functions. It uses 2.4G wireless technology to achieve 360-degree control within 20 meters. Easy and convenient operations enable flexibility.

## FILTERS

There are five levels and five layers of filter systems: Washable primary effective filter, water vapor absorbing filter, H13 HEPA filter, active carbon filter, and UVC photo oxygen catalytic sterilization system.

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

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.



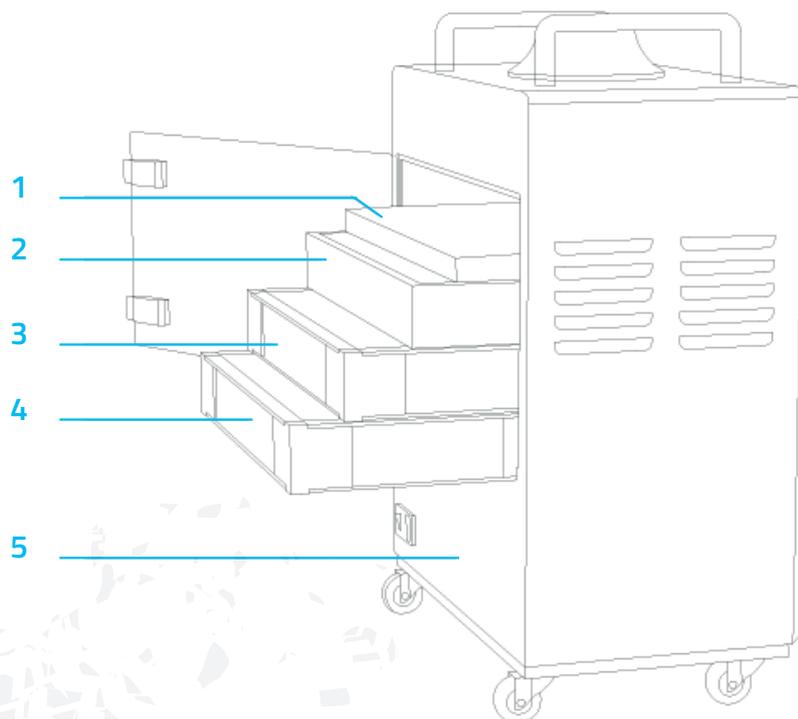
# Packing list

Description	QTY	Size	Model	Note
Main machine	1 set	L400xW255xH595mm	Air-Safer 80	
Power cord	1 piece	1.8 meters		Connect with machine
Smoking tube	1 piece	1.4 meters Folding arm		
User's manual	1 book			
Washable primary effective filter	2 pieces	L360xW220xH20mm	AS01	
H13 HEPA	1 piece	L360xW220xH100mm	AS02	
Water vapor absorbing filter	1 piece	L360xW220xH50mm	AS03	
Active carbon filter	1 piece	L360xW220xH50mm	AS04	
UVC lamp	1 piece	10w	AS05	
Plasma	1 piece		AS06	Options
2.4G Remote control	1 piece			
Foot switch	1 piece		AS07	Options

**Note:** The filter element is placed inside the machine

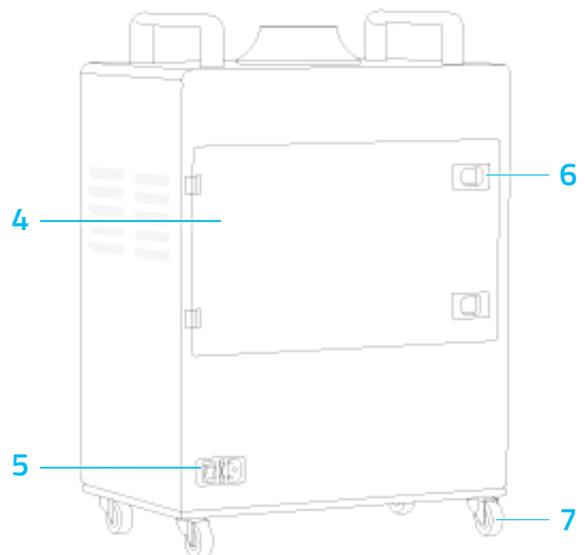
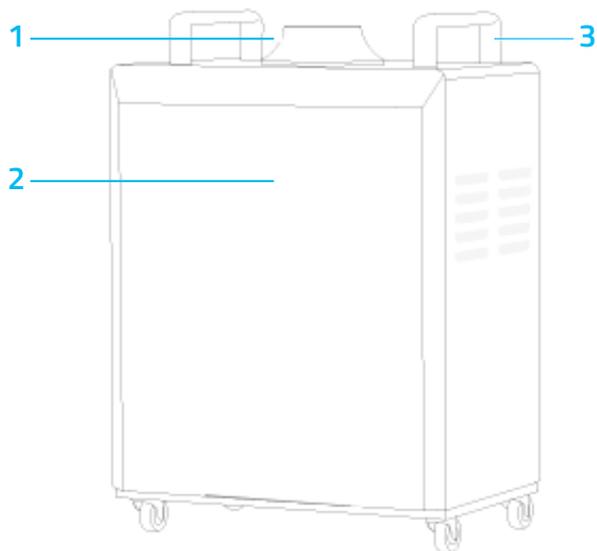
# Filters

	Description	Replacement period	Replacing method
1	Washable primary effective filter		Pull out
2	Water vapour absorbing filter		Pull out
3	H13 HEPA		Pull out
4	Active carbon filter		Pull out
5	UVC lamp		Pull out



# 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

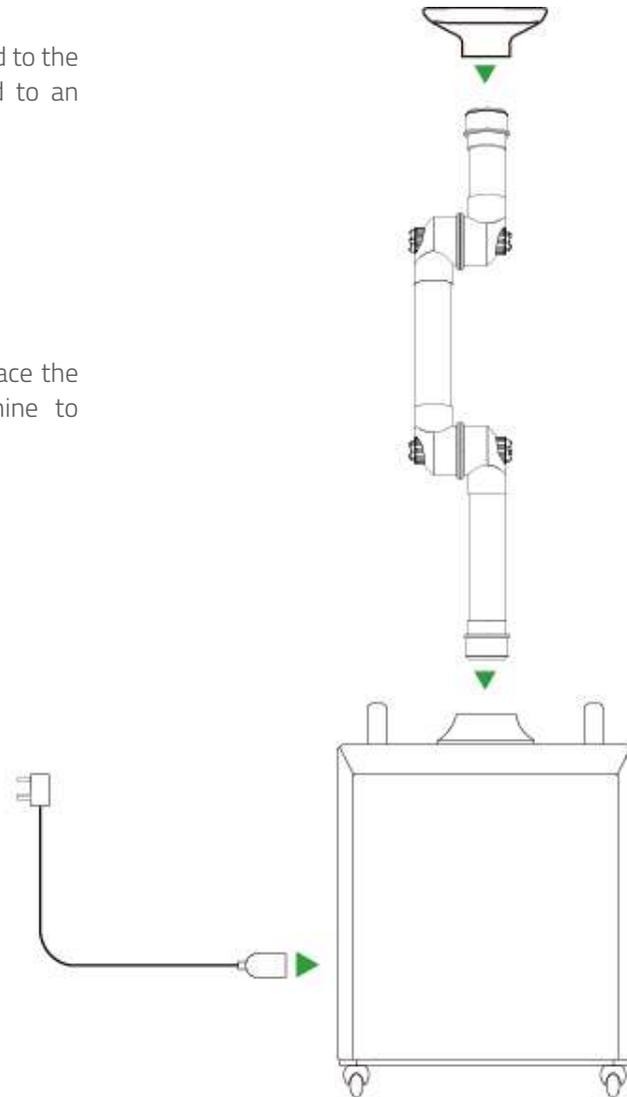
## 01.

Insert one end of the power cord to the tern switch and the other end to an electrical outlet.

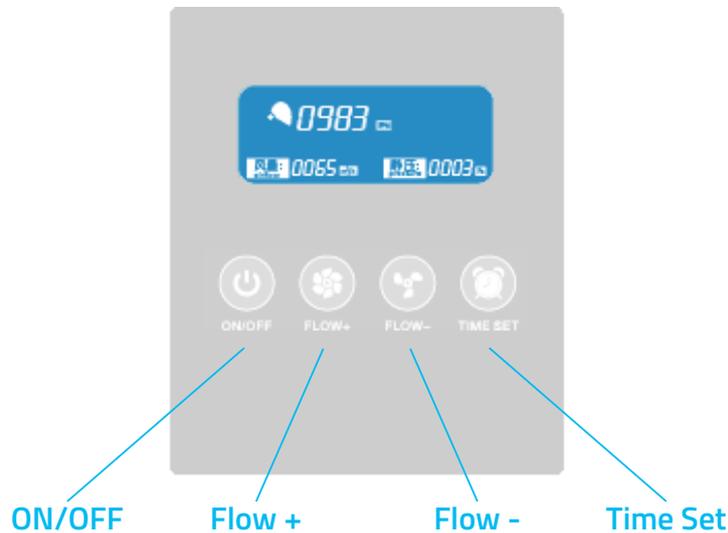
## 02.

Switch the machine on.

**Note:** Try to make the nozzle face the mouth while using the machine to improve the suction efficiency.



# Control panel and remote control

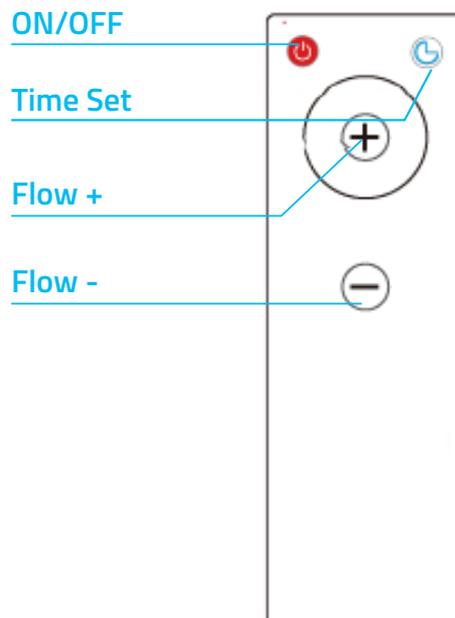


## TIMED SHUTDOWN SETTINGS

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.

## REMOTE TIMED SHUT DOWN

When the machine is running, press this key to display HXXX on the nixie tube display screen, and then adjust the specific time of timing shutdown according to the increase and decrease of wind speed, wherein XXX represents the hours of the timing operation of the machine, with the maximum of 300 hours and the minimum of 1 hour. After setting, press the timing key to query the timing time. The display shows 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

## **01. 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 out-take is blocked. If the suction of the air compressor is normal, the filter element needs to be replaced.

## **02. After the machine starts, it will shut down automatically, repeat the above phenomenon appear when turning on again.**

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.

## **03. 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 !**

# Warranty

**As for the warranty (free repair) of goods within the warranty period, it shall be implemented from the date of purchase.**

**01.** During the warranty period, the goods can only be repaired in MegaGen F.D. SA headquarters or dealers recognized by MegaGen F.D. SA. Please show us this User's manual (Warranty) and purchase invoice.

**02.** From the date of purchase, the main unit is guaranteed for \_\_ \_\_ years.  
(Note: the filter element belongs to consumables and is not under warranty Scope of repair)

**03.** Under one of the following circumstances, even within the warranty period, it can not be treated as a warranty, but it can be bank charge processing:

- A) Damage caused by use, maintenance and storage not under the operating instructions;
- B) Damage caused by incorrect operation, abnormal power supply, and falling;
- C) Damage caused by dismantling the machine without the consent of the manufacturer;
- D) Failure to prove that the machine is within the valid warranty period;
- E) The information on the warranty certificate is inconsistent with or altered from the physical identification of the goods ;
- F) Damage due to nuclear and chemical corrosion;
- G) Damage due to force measures (lightning, earthquake, flood, fire, and other natural disasters).

**04.** MegaGen F.D. SA company reserves the right of final interpretation of after-sales service terms.



[www.megagen.ch](http://www.megagen.ch)  
[www.megagen.fr](http://www.megagen.fr)  
[www.imegagen.de](http://www.imegagen.de)

V 1.0 2020.04