

歯科安全のために、私達また進化した。

FREE ARM

RD80

Aerosol suction machine [ **Movable** ]

H13 - H14 U15 - U16 HEPA

Multiply Panel Filter Design

Automatic Alarm

4 layers filterantion + UVC Lamp + Plasma



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## TECHNICAL SPECIFICATION

|                      |                       |
|----------------------|-----------------------|
| Model                | RD80                  |
| Voltage              | 110V 60hz / 220V 60hz |
| Power                | 220W                  |
| Air Flow Rate        | 340 m <sup>3</sup> /h |
| Noise                | 36db                  |
| Filtration Effect    | 0.3 μm 99.97%         |
| Size                 | 400x255x595mm         |
| N.W                  | 24kg                  |
| Diameter of Flange   | 75mm                  |
| Filters layer        | 4 layer + UVC         |
| Folding Arm Length   | 1.4 meter             |
| Folding Arm Diameter | 63mm                  |
| Negative pressure    | 2.3kpa                |



Note : Each machine comes standard with one 2.4G remote control

## PRODUCTS FEATURES

- I H13 – H14 ; U15 – U16 HEPA, High Filtering Effect
- II Multiply Panel Filter Design
- III 4 layers filtration + UVC Lamp + Plasma Antivirus
- IV Easily Suck up the 10kg Tray (Has test video)
- V 1 Year Warranty + Automatic Alarm

## FILTERS INTRODUCTION

- RD80 use 4 layer filtration + 2 UVC lamp
- It is made up of 1 piece of washable primary effective filter  
 1 piece of Water vapor absorbing filter  
 1 piece of H13 HEPA  
 1 piece of Active carbon.  
 2 UVC lamp  
 1 piece of plasma  
 The filtered gas will be sterilized

## PACKING LIST

| Model             | RD80          | Folding Arm   |
|-------------------|---------------|---------------|
| Package Size      | 500x360x640mm | 500x360x230mm |
| Gross Weight      | 19.5kg        | 2.5kg         |
| CBM               | 0.1152        | 0.0414        |
| Volumetric Weight | 23kg          | 8.3kg         |



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## INTRODUCTION TO STERILIZATION AND FILTRATION



### First layer – Washable primary effective filter

1. Period Frequency : 15 – 30 Days
2. Material : Aluminum alloy frame ; **Washable synthetic fiber**
3. Features : Preliminary filter droplets, aerosols, cutting dust debris, blood
4. Size : 360\*220\*20mm
5. Weight : 40 gram



### Second layer – Water vapor absorbing filter

1. Period Frequency: 2 – 3 Month
2. Material : Aluminum alloy frame ; **Special synthetic fiber**
3. Features: Absorb all moisture , droplets , aerosols and oil
4. Size : 360\*220\*100mm
5. Weight : 530 gram



### Third layer – H13 HEPA

1. Period Frequency: 6 – 8 Month
2. Material : Aluminum alloy frame ; **H13 glass fiber**
3. Features : Blocking particles less than 0.3 micron
4. Size : 360\*220\*50mm
5. Weight : 830 gram



### Fouth layer – Active carbon filter

1. Period Frequency: 9 – 12 Month
3. Material : Aluminum alloy frame ; **Medication immersion active carbon**
2. Features : Absorb odor and fume, eliminate viruses
4. Size : 360\*220\*50mm
5. Weight : 1240 gram



### Last layer – Double UVC disinfection lamp

1. Power : 10w
2. Features : Disinfection and sterilization
3. Wavelength : 253.7nm



### Last layer – Plasma

1. Features : Disinfection and sterilization



### Foot switch

Options

1. Features :  
Replace the hands to achieve  
the purpose of operating  
the machine



### Wave filter

Standard

1. Features :  
Prevent signals from  
interfering with other  
medical equipment



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## WORKING PRINCIPLE

### Complete purification process

- I The nozzle absorbs droplets
- II Washable primary effective filter
- III Water vapor absorbing filter
- IV H13 HEPA
- V Active carbon filter
- VI DC Brushless Motor ( Fan )
- VII Double UVC lamp + Plasma
- VIII Clean Emission



### Automatic alarm function

When the filter element is saturated, the machine will automatically alarm to remind the replacement of the filter element

A small hole is reserved in the disinfection area of the UVC lamp of the machine to observe whether the UVC lamp continues to work.

## WORKING PRINCIPLE



### RD80 Absorption capacity

After testing, RD80 can completely absorb the droplets generated from the patient's mouth and the aerosol staying in the air during oral diagnosis and treatment.

Appropriate air volume will not make customers feel uncomfortable and the sound of the machine is quieter than 36db due to the effect of sound insulation material.

### Certificate



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## FOLDING ARM

### Name :

360° multi direction folding arm

### Material :

ABS plastic and aluminum alloy tube

### Diameter :

63mm

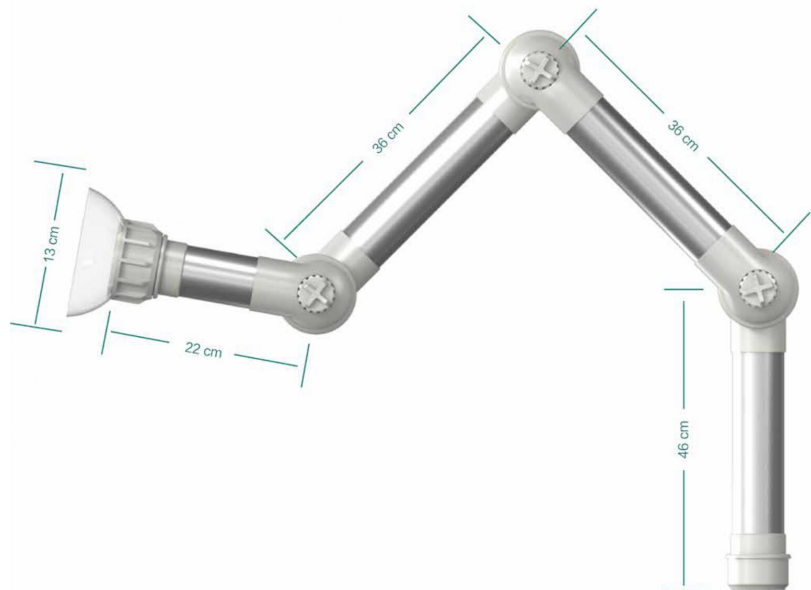
### length :

1.4 meter (Can be extended)

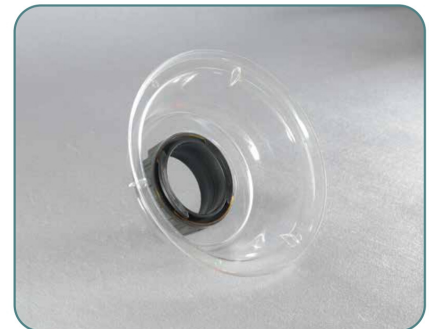
### Advantage :

Sturdy and durable, will not deform and soften after long-term use

Very convenient to adjust angle, height and length



## SMOKING HOOD



### Large round cover Size :

355 x 136mm ( Diameter and height )

### Square cover Size :

310 x 410mm ( Long and wide )

### Small round cover Size :

130 x 70 mm ( Diameter and height )

All transparent cover materials Food grade plastic

## DISINFECTION AND CLEANING METHODS

### Cover

Spray with alcohol or anti-toxic aerosol after each use

### Folding arm

Adjust the machine to the maximum gear (LV10) and run continuously for 5 minutes.  
Regular remove the folding arm and spray with disinfectant or alcohol to clean. ( 75% alcohol concentration )

### Machine

First adjust the machine to the fifth gear ( LV5 ) , and then spray an appropriate amount of alcohol to the air inlet and run continuously for 5 minutes. ( 75% alcohol concentration )



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