

# VANGUARD MOBILE

## Extraoral Suction System



**\*CLINICALLY PROVEN TO REDUCE AEROSOLS UP TO 96%**

Made in the USA.

## INDOOR AIR QUALITY



### CURRENT RECOMMENDATIONS

The ADA & CDC recommend using second tier infection prevention methods when patients may have diseases spread through airborne routes. Extraoral suction systems are an adequate second tier engineering control for source capture.

The Vanguard Mobile provides an optimal design for lowering DHCP exposure to infected aerosols generating during aerosol generating procedures.

This system is compact and mobile to allow for easy usage for any operatory or treatment room setup.



### INFECTION CONTROL PREVENTION

During aerosol generating procedures (AGPs), aerosols and droplets can be ejected up to 6ft from the treatment area. While most dental facilities use intraoral suction methods such as HVE, these systems are unable to capture externally ejected particles due to the variety of approach methods and angles during procedures.

As such, optimal airborne infection control should include the use of an extraoral suction system during AGPs.

### LIST OF AIRBORNE COMMUNICABLE DISEASES

<b>CORONA VIRUS</b>	<b>WHOOPING COUGH</b>	<b>ASPERGILLOSIS</b>
<b>HERPES ZOSTER</b>	<b>MENINGITIS</b>	<b>ROTAVIRUS</b>
<b>INFLUENZA (FLU)</b>	<b>DIPHTHERIA</b>	<b>RHINOVIRUS</b>
<b>COMMON COLD</b>	<b>TUBERCULOSIS</b>	<b>STREP PNEUMONIAE</b>
<b>CHICKEN POX</b>	<b>SARS</b>	<b>ENTERO VIRUSES</b>
<b>MUMPS</b>	<b>BIRD FLU (H5N1)</b>	<b>LEGIONELLOSIS</b>
<b>MEASLES</b>	<b>SWINE FLUE (H1N1)</b>	<b>RSV</b>
<b>HEPATITIS</b>	<b>MERS</b>	<b>SMALL POX</b>

## FILTRATION



### FILTRATION EFFICACY

Certified HEPA filters are the current standard for effective filtration in air purification devices. The Vaniman Vanguard Mobile provides 99.997% filtration down 0.3 microns and has been tested to **IENT-RP-CC0034.4** standards.

HEPA filtration technology has been proven in many nationally published studies as an effective method for capturing airborne hazards such as bacteria, viruses, and other contaminants.

It is currently recommended by the CDC and EPA as an effective solution for improving indoor air quality and lowering airborne contaminants.

### UV LIGHT & OTHER NON-APPROVED FILTRATION METHODS

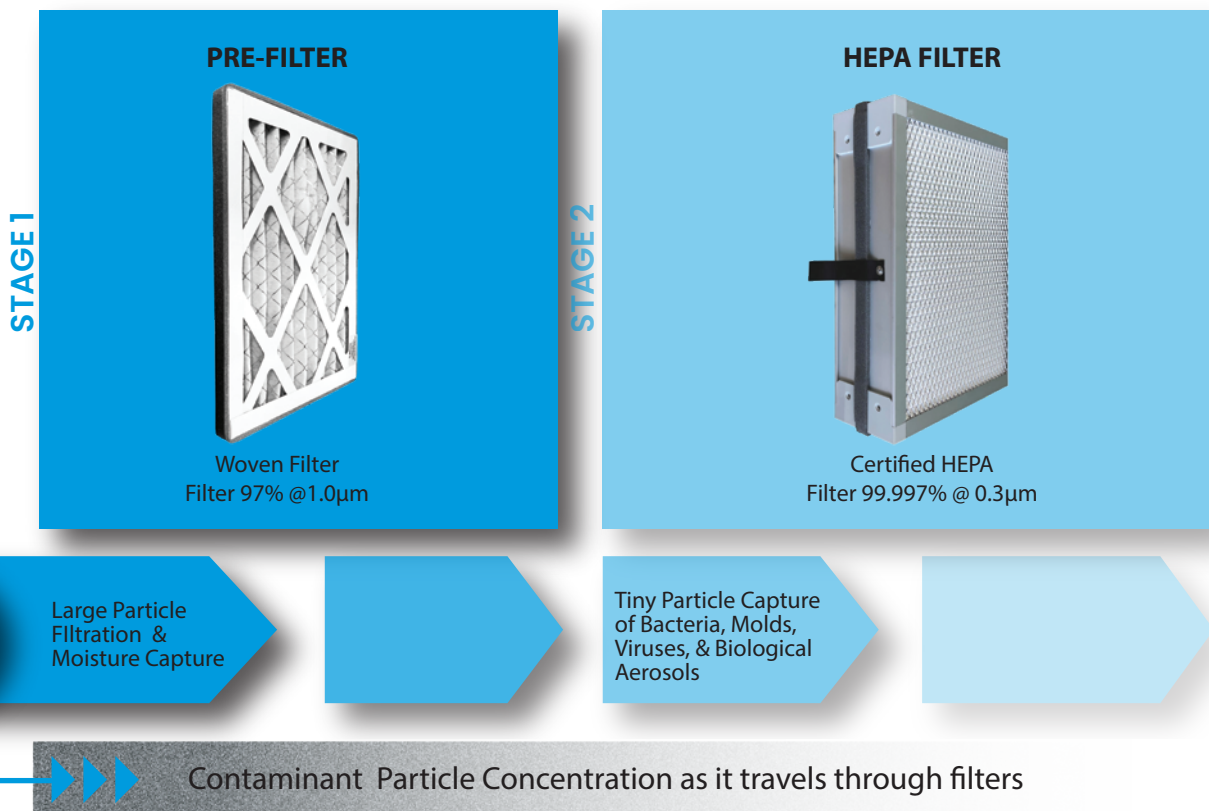
Currently, HEPA filtration is the only recommended method to be used inside portable air purification devices per the **CDC** and **ASHRAE IAQ standard 62.1**.

**"Air-cleaning devices that generate ozone are prohibited."**  
-ANSI/ASHRAE Standard 62.1-2020

This is due to the danger of ozone emission which alternate filtration methods can produce. Additionally, these methods lack of sufficient research validating their efficacy inside portable air purifiers.



### VANIMAN VANGUARD MOBILE 2 STAGE FILTRATION





# VANGUARD MOBILE

## Extraoral Suction System

### Wide Capture Mouth

Durable design providing low air restriction while creating a suction vortex for optimal air flow.

### Powerful High Suction Motor

A high quality turbine motor provides industry high suction power, able to pull in significant amounts of aerosols.

### Stage 1 Woven Pre-Filter

The stage 1 woven pre-filter captures large particles and moisture while offering 97% @ 1.0µm filtration.

### Stage 2 Certified HEPA Filter

The stage 2 HEPA filter captures biological aerosols and other airborne hazards and provides 99.997% @ 0.3µm filtration.

### Remote Control & Adjustable Speeds

Remote on/off comes standard with 3 adjustable speed settings.

### Innovative Flexible Suction Hose

Removable flex hose system stays in place after adjustment and easily moves to fit any treatment approach. Offers hands-free suction.

### Durable Chassis

Made in the USA with quality materials & components that last.

### Innovative Noise Suppression & Dampening Case

Provides industry low sound at 54 dBA on high setting. Sound suppression design and insulation keep noise pollution low.

### Mobility

Easily moved when needed thanks to durable rolling caster wheels.

## WHY IS THE VANIMAN VANGUARD MOBILE DIFFERENT?

### Solving Two Big Problems

The biggest problems with most extraoral systems on the market today are that they are not powerful enough and extremely loud—causing a massive disruption during treatments to patients and staff.

Vaniman decided to solve these problems with a system that is both extremely quiet (54 dB on high) and powerful enough to efficiently capture aerosols.

### Quality Manufacturing

The vast majority of extraoral systems today are made overseas using cheaper components resulting in frequent maintenance and repair costs.

Our Vanguard Mobile is manufactured in the USA using high quality materials that last longer and perform better resulting in lower maintenance and costs overtime.



## VANGUARD MOBILE TECHNICAL SPECIFICATIONS

### MECHANICAL & TECHNICAL DATA

Country of Manufacturing	United States
Grade	Commercial
Dimensions	10"L x 14"W x 21.5"H
Weight	39 Lbs
Warranty	1 Year
Power Requirements	120V 10A
Amperage	5A
Frequency	60 Hz
Case Material	18 Gauge Rolled Steel
Mobility	Rolling Casters (4)
Configurations	Stand Alone Mobile Unit
Speeds	3 (Low, Medium, High)
Sound (Low,Med,High)	50 dB / 52 dB / 54 dB @ 6ft
Activation	Hand Switch or Foot Remote

### FILTRATION DATA

Filtration	2 Stage True HEPA Filtration
Stage 1 Pre-Filter	Woven Pre-Filter 97% @ 1µm
Stage 2 HEPA Filter	HEPA Filter 99.997% @ 0.3µm
Maintenance	
Stage 1 Pre-Filter	Replace Every 3 Months
Stage 2 HEPA Filter	Replace Every 6-12 Months
Disinfection	
Suction Hose	Wipe down or wash 1x per day
Filters	Leave in closed bad after removal for 3 days then dispose in trash.

### \*CLINICAL TESTING RESULTS

Data showed up to 96% reduction in aerosolized particles during a clinical trial study published in the Dental Advisor Microbiology Issue #183, 2020 with data presented during the OSAP Annual Conference August 2020. For additional study information please contact Vaniman at 760-723-1498.

## GENERAL INFORMATION

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### CONTACT INFORMATION

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### COMPANY HISTORY

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Vaniman was founded in 1985 by Ed Vaniman, an engineer who had a passion for solving problems. The company's first product helped to improve the air quality and longevity of filtration devices and is still sold worldwide to this day.

Since then, Ed's son Don Vaniman has continued Ed's passion by continuously innovating and finding new solutions to some of the most challenging problems. All Vaniman products are made in the USA using quality materials and assembled by hand.

At Vaniman, we build products that solve problems.

