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## DuraMax Extraoral Suction System FAQ

### How does this unit compare to other units in the market?

- i) Beyes DuraMax ESS is the only unit with 265 CFM Capacity (7000L/min). This is more than double the CFM capacity of any other unit that is currently available in the market. CFM capacity measures the amount of air that can be drawn in for filtering and the rate that it can filter per minute.  
  
265 CFM Capacity is our unit biggest advantage and makes it a far superior unit than any other unit currently available. CFM capacity is the biggest factor in consideration of how efficient the unit is in controlling and eliminating aerosol production.
- ii) Has a remote control to control power settings and turning unit on and off from a distance for non-disruptive treatments in having to get up and walk over to the unit to adjust settings. Most units in the market do not have remote control!
- iii) Smaller size and more compact unit
- iv) Quieter. Less than 55dB. When tested our unit is closer to 50dB.
- v) 4 layers filter + 2 UV-C light (most other units have 2-3 layers of filter only and may not have UV-C light). Our unit also is an air purifier.

### How often would the filters needs to be changed?

Recommendations on replacement times for filters are based on usage (5 days/week, 8 hours/day) current situation and we anticipate time frame recommended to not be as frequent as the situation improves. We will release an update should filter replacement recommendation period changes.

Current recommendations:

S1 Filter (the layer that absorbs moisture), should be changed monthly. This filter is inexpensive.  
Retail : \$9.90

S2 Filter, changed every 3 months, Retail: \$74.40

S3 Filter, changed every 3 months, Retail: \$89

S4 Filter, changed every 6 months, Retail: \$89

## **Can we set a reminder for when filters need to be changed?**

The unit will come with log sheets to record when filters were last changed. If office forgets to change filters and the filter is no longer working efficiently, the unit will keep beeping to indicate an error.

## **How should the filters be disposed?**

The filters should be disposed as medical waste. State regulations on how to dispose of medical waste may differ from state to state and your office should follow those guidelines. Gloves and PPE's should be worn when replacing the filters.

## **What maintenance is required? Is the suction hood autoclavable?**

The only maintenance required for this unit, is to use any hard surface disinfect (i.e. CaviWipes) to disinfect the suction hood in between patients – just like how dental chairs are disinfected in between patients. Autoclaving would cause the suction hood to degrade faster and is not required.

There is no maintenance required for inside the tubes. Please do not pour any liquids inside.

Filters would need to be replaced due to recommended time frames due to usage.

## **What is the warranty period?**

Warranty period is 30 months and unit must be registered on Beyes website within 30 days of receiving the unit.

## **What HEPA Class filter is used in the unit?**

H14, this is the highest grade HEPA Class filter that can be used while still allowing air flow to pass through

## **The COVID-19 is 0.125 microns, can this unit capture particles at 0.1 microns?**

Particles that are smaller than 0.3 microns (around 0.1 microns or even less) have so little mass that they actually get bounced around like a pinball when they hit gas molecules (known as Brownian Motion). So they move in random zigzag patterns and will be caught by the filter.

Scientists from NASA have tested the particle capturing efficiency of filters and found that 0.3 microns is the lowest point and the most difficult sized particle to capture but microns smaller than 0.3 are actually easier to capture by HEPA filter.

## **Does this unit need to continue to run in the treatment room following treatment?**

The unit does not need to continue to run in treatment room following treatment, as aerosols are captured directly from treatment site and with a 265 CFM capacity.

## **How easy is it to assemble the unit?**

No technician is required. The unit will come in 2 pieces (made up of the main body and the arm) and can be easily assembled by office staff. The tube from the arm piece will just need to be inserted in the main body and arms can be adjusted to desired position and then tightened using the joint knobs.

## **What is the optimal distance for this unit to be efficient?**

The suction hood should be placed 10CM (approximately 4 inches) from the patient's face.

## **Is there any ozone produced with the UV light?**

Beyes DuraMax ESS uses UV-C Light which is in the 253-254nm germicidal wavelength range does not generate ozone. Ozone may only be produced by UV light under 200nm.