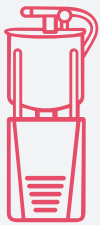


Before implementing continuous use of high-volume evacuation (HVE), consider its effects on your air and vacuum system.



Why do dental practices use high-volume evacuators?

HVE equipment helps reduce the aerosols and splatter produced by ultrasonic and air polishing treatments that can contain saliva, blood, bacteria and pathogens.

MAKE SURE YOUR MECHANICAL ROOM EQUIPMENT IS READY FOR HVE USE.

Simultaneous HVE use can be considered the equivalent of approximately one user performing typical dentistry at one time.

To determine if your particular vacuum can accommodate simultaneous HVE, we recommend taking the following steps.

- 1** Prior to seeing patients, ask a technician to come to your office and, along with your office staff, simulate your patient numbers and procedure mix to test this new demand on your vacuum.
 - Turn on tips in each “in-use” operator.
 - Test the suction using your line cleaning bucket filled with water.
 - Does the water evacuate in a timely manner?
 - If your office uses overhead plumbing, is there any evidence of stagnant flow or backflow?
 - Turn off tips until you reach desired suction.
- 2** If your vacuum was unable to provide the desired suction for your operation, consider these options.
 - Adapt to how you operate.
 - Turn off tips that aren't in practice.
 - Only use HVE when procedures producing aerosols are performed.
 - If you have a backup pump for redundancy, consider turning it on.
 - Increase your vacuum pump size or upgrade your equipment to increase your user size.
 - Ensure your office has a good standard vacuum line cleaning procedure that is practiced regularly by all staff.
- 3** Ensure proper ventilation of your mechanical room equipment by having vacuum exhaust and compressor intake plumbed to the exterior.

MIDMARK SOLUTIONS

Compressors and vacuum systems operate at peak efficiency when installed, operated and maintained per the specifications Midmark provided online or from your dealer. Midmark solutions are designed to provide your office with clean, dry air and suction that exceeds the requirements for dental operation.

To ensure you have the safest, most reliable air and vacuum, check with your preferred service technician to ensure any change in your operational environment can be reliably supported with your current equipment.

Midmark PowerVac® and PowerVac® G Dry Vacuums

- These vacuums can be expanded to grow with your practice and meet your needs today and into the future. Upgradable flexibility can accommodate 1–20 users.
- PowerVac and PowerVac G have the best flow at pressure rate. Positive displacement pulls through the system more effectively vs. other systems.

- For practices with overhead plumbing, the PowerVac and PowerVac G have the most suction pressure at 18" Hg to keep up with your demands.

Midmark Oil-Less PowerAir Compressor

- This compressor does not use oil, which eliminates the need to change oil that could carry contaminants.



Now is a great time to check in and update or reset your maintenance requirements and the expectations of your dental office.

For additional information, please visit our start-up guide available at midmark.com/airvacstartup

| TYPES OF CONTAMINANT ¹ | | | | | | |
|-----------------------------------|----------------------|---------------------------|-----|-----|-------------------------------------|---------|
| Visible with the naked eye | | Visible with a Microscope | | | Visible with an Electron Microscope | |
| Particle size in microns | | | | | | |
| 100 | 10 | 1.0 | 0.5 | 0.1 | 0.01 | 0.001 |
| Bacteria | | | | | | |
| Plant Spores | | | | | | Viruses |
| | | Tobacco Smoke | | | | |
| Fertilizer | Cooking Smoke/Grease | | | | | |
| Household Dust | | | | | | |
| Human Hair | Pet Dander | | | | | |
| | | Insecticide Dust | | | | |
| Coal Dust | | | | | | |

■ Contaminants that pass through a 5-micron filter

Clean air is vital. Midmark PowerAir Compressors utilize a 0.01-micron coalescent filter designed to provide the ultimate in clean air, generating the capacity to capture 99.9997% of compressed air contaminants.

Sources:
 1 Adapted from: <https://cleanaire.co.nz/design-your-hrv/air-filters-explained>
 2 Sizes provided are within the typical size ranges for each particle listed.

For more information, contact your Midmark dealer or call 1.800.MIDMARK. Outside the USA, call 1.937.526.3662 or visit our website at midmark.com

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