

WORKING TOGETHER TO BRING YOU PEACE OF MIND

A high-performance dry vacuum system like the Mojave Monitor Dry Vacs from Air Techniques, along with the Monarch CleanStream Evacuation System Cleaner, can keep your dental team and patients safe, lower your water and energy costs, and eliminate unexpected downtime.



Dentistry's Perfect Pair

Investing in the right vacuum system is a great start, but you have to keep it properly maintained. Air Techniques' Mojave Monitor Dry Vacs and CleanStream Evacuation System cleaner work better together.

Vacuum systems are the unsung heroes of the dental practice. They work in the background, keeping the critical equipment that removes saliva, blood, and other debris functioning properly during procedures. While these systems ensure patient safety so you are able to provide the best care possible, the products and cleaners are typically given very little thought—until something goes wrong.

Investing in high-quality vacuum systems is crucial. A faulty system that easily breaks down will only cost you money and waste time. Maintaining the system must be a priority. Even the best equipment will go down if not properly cared for.

Systems like the Mojave Monitor Dry Vacs from Air Techniques, when paired with the Monarch CleanStream Evacuation System cleaner, offer the reliability needed from a vacuum system. They feature high flow rates that capture more aerosols, helping to keep patients and team members from getting sick. The low-noise, dry vacuum systems, which come in multiple sizes and configurations, can also save you money, reducing your practice's water and energy costs. Because they are so reliable, Mojave Monitor Dry Vacs also eliminate the headaches and costs that come with the unexpected downtime that results if your vacuum system fails.



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Emily Boge, EdD, RDH, CDA

Emily Boge, EdD, RDH, CDA, who serves as dental administrative chair at Hawkeye Community College, Waterloo, IA, has used a Mojave Dry Vac quad system in her new clinic since August 2022 with 24 operatories connected to the system. Air Techniques worked with Henry Schein during the design phase, taking the time to assess the clinic's specific situation and the load that would be placed on the unit before recommending the best option.

The Air Techniques dry vacuum Dr. Boge selected is much quieter than systems she's used in the past, which is important as the utility room is on the other side of a main clinic wall. The high-performance vacuum uses the lowest amount of energy possible, and also has the small footprint she needed, she said. She also likes the fact that no water or oil is used to create the vacuum suction, making it a low-maintenance option.

Of course, the system wouldn't run as smoothly as it does without the CleanStream Evacuation System

Cleaner. Dr. Boge noted that it prevents sludge buildup in the lines and allows for more effective suction flow. The cleaner, she said, "helps to decrease the incidence of retention inside the lines where we cannot see," and that is key to keeping vacuum systems operating properly.

The Mojave Monitor Dry Vacs and the CleanStream Evacuation System cleaner make the perfect pair, working together to keep your equipment running and your patients and team members safe.

"Unlike the brick outside the building, the light fixtures in the reception area, and the dental units and chairs, these systems sit back in a room by themselves and do not get the appreciation they deserve," Dr. Boge said. "These items can make the difference between having high-quality equipment performance during procedures and adequate disease prevention, and having high-speed handpieces not running smoothly or team members out sick with respiratory conditions from inhaling contaminated aerosols for 8 hours a day."

The Practice Hero

The Mojave Monitor Dry Vac family delivers high performance and energy efficiency.

When Hurricane Harvey hit Texas in 2017, the Lone Star College Dental Hygiene Clinic lost everything to the storm's floodwaters. When they rebuilt the following year, they had to get all new equipment—and there was no question their vacuum system would be from Air Techniques.

The new clinic has two Mojave Monitor Dry Vac systems. Janet Franklin Ables, Specialist III Clinic Operations at the college, describes the dry vacuum as equipment that she knows she can count on.

"It works. It keeps up with what we need. We've had no issues or breakdowns," she said. "We don't have downtime or lose clinic time because suction has gone out, and we don't have to deal with expensive repair bills. It's just a good product."

Aerosol Reduction

Dr. Emily Boge is also impressed with the Mojave system at Hawkeye Community College, noting that it is much quieter than the clinic's previous unit, and it supports vacuum pressure and flow at a higher rate.

The clinic's 2 dozen operatories function at the same time, translating into high aerosol production. Students are learning to complete aerosol-generating procedures, such as ultrasonic scaling, she said, making it "critical not only that the suction strength is there to scavenge the aerosols from inside and outside the mouth, but that the flow rate of the

vacuum system is of the highest quality to take that scavenged bioburden away from the treatment area and into the sewer system."

"A quality vacuum system," she said, "is the best mechanism we have as dental professionals to eliminate aerosols from the air we breathe, thereby decreasing the chances of inhaling the respiratory bacteria and viruses that live on these particles of moisture."

Cost Savings

One of the primary benefits of the Mojave line is the units run on zero water and are energy efficient. Their low power consumption and operating costs save practices money.

"Water and energy savings do not seem like a lot of money saved when we consider it on a daily basis, yet when you add all of those days together into the months and years calculation, there is a significant savings of power," Dr. Boge said. "This is something that can be calculated by your service tech as

High Flow Rates



Mojave vacuums feature up to 2 times higher flow than competitors.

you plan for the installation of a system, based on the system you need to provide adequate suction strength and flow rate."

The 3-phase motor vacuum systems are also designed to be low maintenance. The LT version is tankless, meaning there are no expensive filters to change each month or traps to drain. And unlike some older units, none of the systems requires oil. Daily maintenance is easy with the Monarch CleanStream Evacuation System cleaner, which safely and effectively cleans suction lines in minutes.

Dr. Boge said her Mojave system has multiple pumps that only activate when needed, which decreases overall wear on the unit. Its rinse-and-flush action

Mojave System Features

Mojave vacuum systems are available in various models and sizes, including the Mojave Monitor V3M, V5M, V7M, and the V15 series, featuring:

- High flow rate at every operatory, even with multiple simultaneous users
- Additional pumps that turn on only when needed
- Automatic rinsing cycle that cleans the tank and prevents clogs
- Nickel-plated or stainless-steel wetted metal parts
- Easy installation with rugged metal chassis



The Mojave LT

This new tankless system is geared toward smaller offices. It's designed to replace conventional liquid ring pumps and is 100% water-free. The ultra-quiet system is compact and features a multicolor touch screen display. Like other systems in the line, it has a sound-reducing impeller design, a 3-phase motor that generates higher torque and less heat, and extended heat-resistant motor bearings. All wetted metal parts are nickel plated or stainless steel. It also has an aluminum high-performance air-exhaust heat exchanger and a rugged metal chassis.



Through cloud-based IoT monitoring, you receive live status updates, device messages, and access to remote support. Vacuum level, voltage, temperature, pump frequency, and separator rpm are among the data constantly being monitored.

"The Vision Monitor allows for greater peace of mind in the function of the unit," Dr. Boge said. "We know the company is monitoring the pressure and flow rates so we can focus on providing quality patient care."

The Reliability You Need

When properly maintained with the CleanStream Evacuation System cleaner, the Mojave line of high-performing vacuum systems is a cost-effective, low-maintenance option that will keep your equipment running smoothly, so you never have to worry about downtime and the costs that come with it.

while generating higher torque with less heat.

Real-Time Monitoring

The Vision Monitor software provides valuable information from your critical dental equipment.

prevents clogs, limiting worries about biofilm and other microbial burdens building up. To ensure the system runs optimally at all times, pump speed is automatically adjusted to deliver the necessary flow rate on demand. There's also no lag when students use the HVE at the same time to operate ultrasonic units, allowing for efficient operation.

The Mojave line is made from the highest-quality materials, with nickel-plated stainless steel that doesn't fall victim to corrosion. The systems feature an aluminum high-performance air-exhaust heat exchanger and a rugged metal chassis.

Designed to Stay Quiet

The Mojave LT line uses a motor-driven air/water separator with a variable frequency driven regenerative blower to deliver high performance—and to do so quietly. Inside the 3-phase motor, impellers are designed with staggered vanes to further boost its quieter design,

The Acadia Plus

It's critical to invest in an amalgam separator that works with your evacuation system and meets the EPA Dental Rule requirements. The Acadia Plus checks those boxes. Featuring an improved design to prevent premature clogging, Acadia Plus is easy to maintain, with no inlet solid collection filter. Its reversible mounting makes plumbing easy to install and ensures connections stay intact.

One Acadia Plus unit can support up to 10 operatories, and the unit works with all wet and dry vacuums.

With 60% more filter capacity than other options, you won't have to change your filters nearly as often, saving time and money. The unit's larger 2-inch connections with existing 2-inch plumbing lines can increase vacuum performance (CFM) by 57% over the maximum 1.5-inch connection found on other models.



Prolong Your Vacuum System's Life

A closer look at what makes the CleanStream Evacuation System cleaner so effective.



Investing in a high-quality vacuum system won't do your practice any good if you don't clean it properly. The Monarch CleanStream Evacuation System cleaner will help optimize your system so it runs smoothly for years to come, keeping lines functioning properly and your patients safe. CleanStream is formulated with a proprietary blend of surfactants and chelating agents to remove and prevent debris buildup in your evacuation lines. This ensures your vacuum maintains peak performance and optimizes suction, with uninterrupted workflows.

Keeping your lines clean also helps with aerosol mitigation to ensure patient and team safety. And it prolongs the life of your equipment, saving you the money and headaches that come with having to replace your vacuum system.

CleanStream is a nonfoaming liquid, which is more efficient and better for dry systems. Why? High-foaming cleansers can bypass the tank safety features and reach the impeller, leaving the turbine coated with residue and debris—leading to lower

performance, loss of suction, and eventually pump failure. CleanStream is easy on your system and effective in removing and preventing buildup.

The environmentally friendly solution features a fresh scent, is noncorrosive, nonhazardous, and has a neutral pH.

5 days

The amount of time the concentrated formula can last if premixed.

The Dispenser

This cleaner is the only one recommended for Mojave vacuums, and is most effective when paired with the CleanStream Dispenser. Fitting all HVE and saliva ejector tubing, the dispenser makes it easy to mix the solution. Vortex technology creates a mixture of air and liquid, and aspirates the solution into a fine mist so it completely covers the inner tubing without adding stress to the vacuum pump. It automatically dispenses the solution needed for up to 2 operatories, while you perform other tasks.

Janet Franklin Ables of the Lone Star College Dental Hygiene Clinic uses the CleanStream solution daily and loves how easy it is to dispense. She's never had any trouble with the vacuum's suction lines. "You put your designated amount of concentrate in, turn the suction hoses on, and you walk off and do something else," she said. "It takes less than 10 minutes, so you can hook it up, finish another cleaning task, and then come back and it's done."

Protect Your Investment

Daily cleaning is critical to prolonging the life of your equipment, but it's just as important to use the right solution. CleanStream effectively cleans wet and dry units and will keep your Mojave system working at optimum performance.

"It's a good system, so we want to keep it running for as long as we can," Franklin Ables said. "We take care of it so it remains trouble-free."

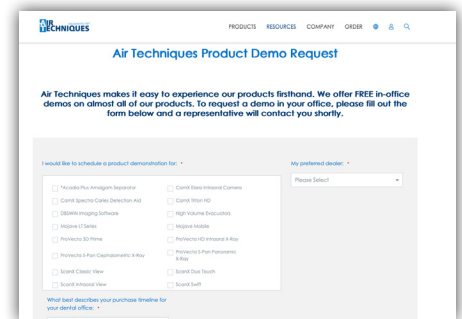
Did You Know...

Using improper cleaning methods to clean your vacuum system, like the dip and slurp method that drops evacuation lines into a bucket, can lead to system failure. The CleanStream Dispenser adds air to the CleanStream liquid solution, atomizing it through the lines without adding stress to the pump.

125

The number of cleanings you get from the CleanStream solution per bottle.

Additional Resources



CONNECT WITH AIR TECHNIQUES