What are aerosols? AEROSOL GENERATION AND CONTENTS

**HVEs REDUCE 90% OF AEROSOLS**

Aerosols are generated when air, water spray and air turbine hand pieces are used; they may contain up to 100,000 bacteria per cubic foot of air and remain airborne for a long time. Aerosol and splatter composed of blood, bacteria, saliva and tissue fluid cause exposure to blood-borne pathogens.

**Diseases that aerosols can carry**

**SPREAD THROUGH AIR**
- Chickenpox
- Measles
- Tuberculosis

**SPREAD THROUGH DROPLETS**
- COVID-19
- Influenza
- Meningitis
- Whooping cough

**SURGICAL MASKS**

"Surgical masks protect mucous membranes of the mouth and nose from droplet spatter, but they do not provide complete protection against inhalation of airborne infectious agents."

**HIGH-VOLUME EVACUATORS**

To prevent contact with splashes and spatter, dental health care personnel should position patients properly and make appropriate use of high-volume evacuators as well as barriers such as face shields, surgical masks, gowns, and rubber dams.

**THE MOJAVE DRY VAC FROM AIR TECHNIQUES**

Air Techniques’ dry vacuum, Mojave, uses technology to contain and safely evacuate aerosols, spray mist, fluid and debris before they leave the mouth. It is the next generation of dry vacuum systems that deliver the highest suction power of any system available today.

- **Designed for high-flow applications**, which help effectively reduce aerosols
- **Highest flow system (measured in cubic foot per minute)** – effective in removing liquids, while being a more important measurement for aerosol management
- **Modular platform** that allows for additional pumps and increased flow if needed

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