

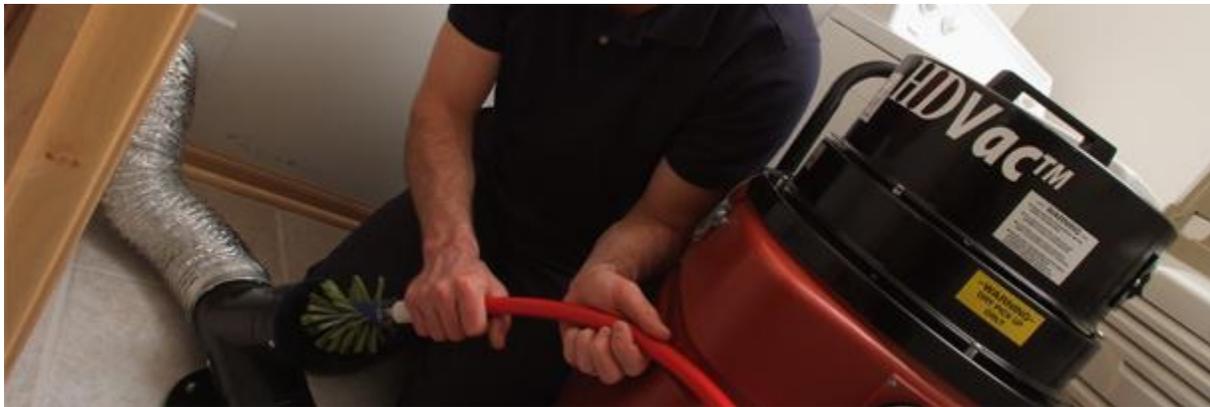
VENT AND DUCT CLEANING

Dryer Vents

Clogged dryer vents are a waste of energy—and may be dangerous too. Our *HDVac™* dryer vent cleaning system can help by cleaning out blockage to improve air flow.

Not only do clogged dryer vents waste energy and cause 16,000 fires a year*, they increase drying times and shorten the life of a dryer. The *HDVac* system lets us inspect and clean dryer vents professionally and effectively, resulting in a safer, more energy-efficient dryer.

PROMOTING
ENERGY
EFFICIENCY



Duct Cleaning

Our aiR+ XP air duct cleaning machine offers the latest advancement in air duct cleaning technology with the flexibility to clean all ductwork safely and efficiently—even flex duct.



The National Air Duct Cleaning Association - Insulated Duct Cleaning and Maintenance

Improper maintenance of the HVAC system, including the duct system, can lead to an accumulation of dirt, dust, and moisture which can restrict air flow and may jeopardize the quality of the indoor air.

HVAC System Maintenance

The best way to ensure that an HVAC system, whether bare metal or internally insulated, will continue to provide efficient, quiet air delivery and occupant comfort is by following a regular maintenance schedule. This, along with a high-efficiency filtration system, assures protection of both HVAC system components and building occupants. Maintenance procedures include inspection, detection, and remediation of probable sources of airborne contaminants and moisture.

As always, prevention is the most desirable solution. However, in some cases, it may be too late for prevention and system cleaning is necessary. If duct cleaning is necessary, it is important that the cleaning professionals be familiar with both the NAIMA and NADCA (National Air Duct Cleaning Association) guidelines. Today's air duct insulations are designed to withstand the rigors of cleaning.

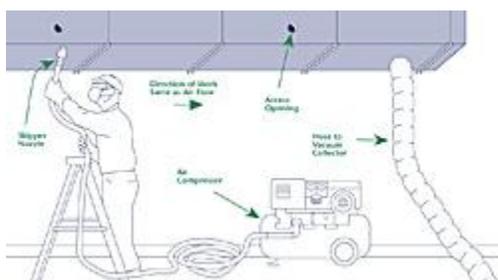
Cleanability

Fiber glass duct liner and duct board products have surfaces that are resistant to the kind of abuse that occurs during duct cleaning. The industry has worked with the National Air Duct Cleaners Association (NADCA) and the U.S. Environmental Protection Agency (EPA) in developing guidelines for cleaning insulated ductwork. Currently, there are several cleaning methods available. The NAIMA recommended methods of duct cleaning include:

Contact Vacuuming



This method involves the use of a portable vacuum with High Efficiency Particulate Air (HEPA) filtration. There is direct contact between the brush head and the interior of duct surfaces to dislodge and remove dirt and debris.

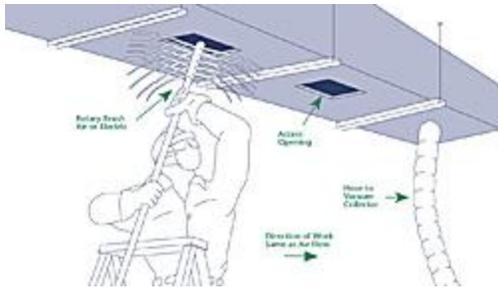


Air Washing

This method introduces compressed air into the duct through a hose terminated with a “skipper” nozzle (while the duct system is under negative pressure). This nozzle is designed so that the compressed air propels it inside the duct while

dislodging dirt and debris. The dislodged dirt and debris become airborne and are drawn downstream through the duct and out of the system by the vacuum collection equipment.

Power Brushing



This method involves the use of pneumatically or electrically powered rotation bristle brushes to loosen dirt and debris which are drawn downstream into a vacuum collector. Care should be taken not to damage the duct walls or insulation surfaces. Only flexible bristle brushes should be used.

Sanitizers and Biocides

The U.S. Environmental Protection Agency (EPA) regulates the use of sanitizers or biocides inside ducts that either kill or inhibit microbial growth. The EPA has recommended that disinfectant, sanitizer, or other antimicrobial products not be applied to HVAC systems if such product does not include specific directions for HVAC use.

The EPA noted that even where labels do list HVAC systems as a possible use, they are concerned that the risks of these uses have not been fully evaluated. In addition, they warn that users of these products cannot assume that EPA registration of these products reflects any conclusion about their safety or effectiveness in HVAC systems.

NAIMA recommends that building owners or managers who are considering the application of sanitizers or biocides be aware of a number of issues related to their use in HVAC systems. Some manufacturers of these products may be required to make Material Safety Data Sheets (MSDS) available upon request. If applicable, you should review the MSDSs for health and safety information related to these products. Additional information on the use of biocides and sanitizers is also available on the EPA web site

