



BLUE STAR

**BLUE STAR DUCT CLEANING.**

**MAKES THE AIR IN YOUR WORKPLACE  
TRULY BREATHABLE.**





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Duct cleaning plays a vital role in preserving the health of your office space and in turn the health of your business. It is particularly relevant as bacteria and mold accumulate within ducts over time and pose a significant threat to indoor air quality, becoming a potential hazard to the well-being of employees.

Our Duct Cleaning Service is one of the many we offer as part of our Gold Standard Service. Which means you get faster response, efficient repairs and all the advantages of lower downtime. We have a certified team that ensures every inch and every part of your HVAC system is thoroughly cleaned. At the same time, our 80 years in HVAC gives you the benefits of extensive knowhow, experience and skill. Add to this the fact that we use only genuine spares and make sure your equipment gets the best care and performs at the level you'd expect from Blue Star.

# WHY DUCT CLEANING IS IMPORTANT?



Duct cleaning eliminates bacteria and molds which form inside the ducts over a period of time. Once they enter the air conditioned space, they end up polluting the indoor air. Regular duct cleaning ensures that the occupants breathe clean and pollution-free air.



National Air Duct Cleaners Association (NADCA), the Air Conditioning Contractors of America and the US Environmental Protection Agency (EPA), recommend that the complete HVAC system should be cleaned to prevent re-contamination. This is achieved by removing the contaminants all the way from the entry of air to its exit including all internal surfaces of the airstream – air handling units, fans, coils, mixing boxes, variable air volume boxes, heat exchanges, condensate drain pans, ductwork and components in which air travels through or across.



Improves the efficiency of the complete air conditioning system, extending its life, and ultimately saving energy and money.



Prevents potential fire hazards.

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# HOW

## DUCT CLEANING WORKS?

### STEP 1

#### **SHAKING THE CONTAMINANTS LOOSE BY AGITATION.**

Removal of contaminants begins with the use of one or more agitation devices that are designed to loosen contaminants from the surfaces within the air conditioning system.

### STEP 2

#### **MOVING THE CONTAMINANTS DOWN THE DUCT WITH THE HELP OF NEGATIVE AIRFLOW.**

During cleaning, the entire HVAC system is placed under continuous negative pressure with a vacuum to prevent the spread of contaminants. This allows fine particles to be removed from the system as they become airborne, ensuring that these particles are not released into the living space when the system is turned on after cleaning.

### STEP 3

#### **COLLECTING THE CONTAMINANTS.**

This negative pressure also serves to extract the loosened contaminants, which are then collected and removed. After dislodging the debris, the contaminants are collected properly with the help of collectors.

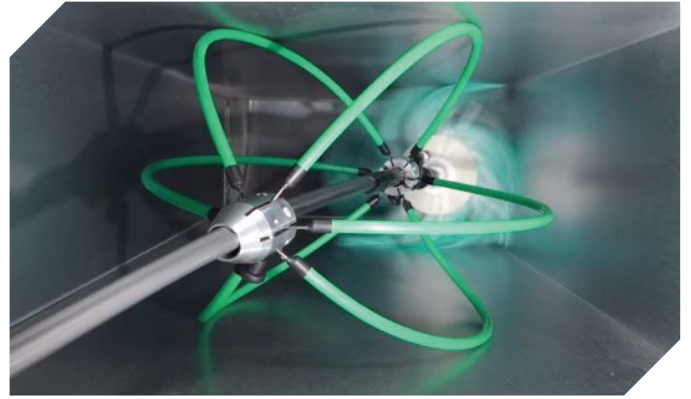
Often, HVAC system components collect significant amounts of debris and particulate matter during construction activities within a building. NADCA recommends that newly installed HVAC systems or HVAC systems undergoing renovation to be verified as clean and protected, before the system is permitted to operate.

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# ADVANTAGE

## OF DUCT CLEANING AT BLUE STAR

Blue Star is a certified member of NADCA. Thus, strict guidelines and standards set by NADCA are followed by us for all our services. Our Air System Cleaning Specialist (ASCS), certified by NADCA, renders efficient service every single time regardless of the complexity of the project. Our service technicians have immense knowledge of the tools and tackles. They use equipment ranging from the widest range of brushes, innovative brush adapters and gears to achieve the best results, all in line with NADCA's standards.



Duct Cleaning Brush

## HOW BLUE STAR DUCT CLEANING

# BENEFITS YOU.



Quiet and quick operations



Remote monitoring with display screen and remote



Portable and easy movement



Works on a system of blow and vacuum



Offers video recording



Easy access to corners and joints of a duct



Provides clean air discharge



Removes unpleasant odors

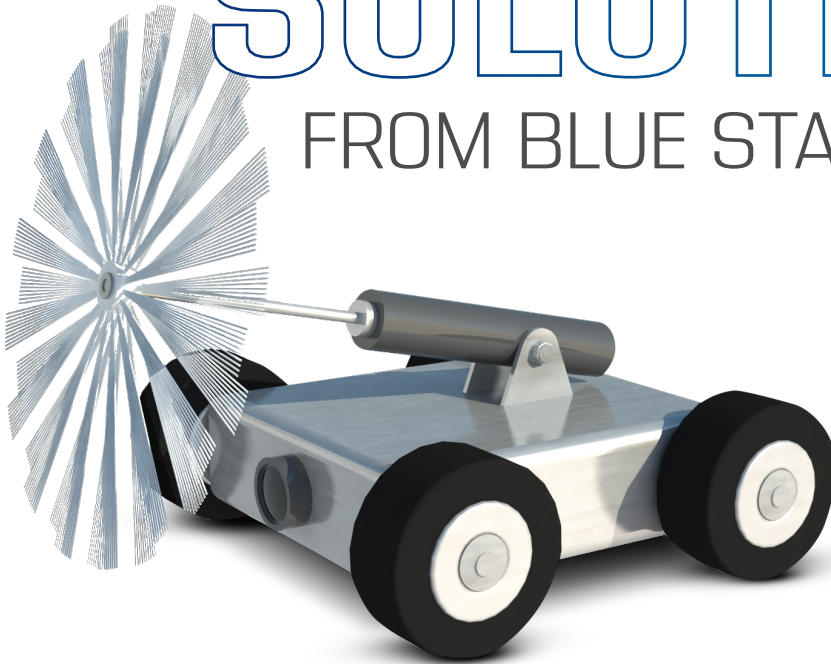


Savings on energy consumption

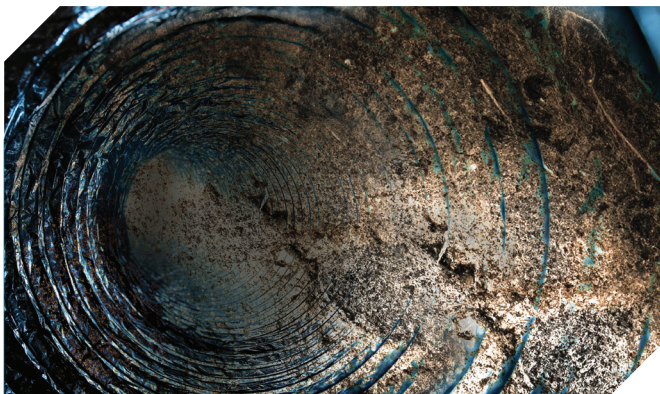


# UNIQUE SOLUTIONS

## FROM BLUE STAR



Robotic HVAC Duct Cleaning



Before Cleaning



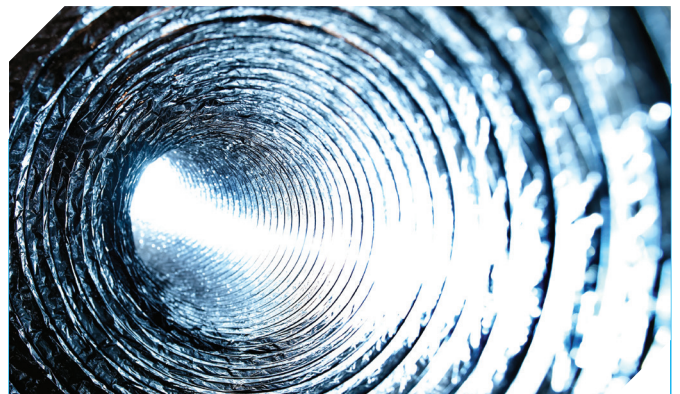
Pollen



Household Mold



Dust



After Cleaning

### Robotic HVAC Duct Cleaning:

The HVAC ducts are inspected and decontaminated using the robotic system ensuring maximum efficiency.

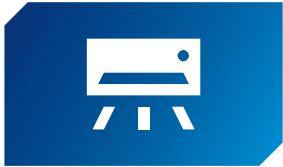
### Disinfection:

We use a Hydrogen Peroxide (H2O2) based chemical to disinfect the facility after the duct cleaning activity thereby killing all the unseen viruses, bacteria, fungi and other pathogens in the facility. This chemical releases nascent oxygen which will kill all of them resulting in a safe and healthy space. The area should not be used for 3 to 4 hours after the application of the chemical.

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# STEPS FOR REGULAR MAINTENANCE

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Duct cleaning should be done on a regular basis. Removing the accumulated dirt and dust inside the ducts periodically will help to eliminate contamination.



Clean the grilles and diffusers regularly.



Clean filters in all IDUs at regular frequency using 5% Cresol solution (containing 50% Cresol and 50% liquid soap solution).



Condensate drain pans, cooling and heating coils must be cleaned regularly.



Louvers on toilet doors which are designed as part of exhaust systems need to be cleaned regularly.



Frequently sanitise various items including switches and panel handles. As the same may be touched and operated by human hands.

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# HEALTHY AIR FOR EVERYONE

Clean air is essential for a healthy environment, especially in critical spaces like hospitals, hotels and pharmaceutical facilities.

**Blue Star's expert duct cleaning services help ensure optimal air quality by removing contaminants that can:**

- Spread viruses and bacteria: Regular duct cleaning reduces the circulation of airborne particles that can lead to respiratory illnesses.
- Trigger allergies and asthma: Dust, mold spores and other allergens can accumulate in ducts, worsening allergy and asthma symptoms.
- Compromise sensitive environments: Hospitals require clean air for patient recovery, hotels need healthy spaces for guests and pharmaceutical companies rely on pure air for manufacturing medications.

## Beyond Healthcare

Blue Star's duct cleaning expertise extends to various industries:

IT companies: Prevents dust buildup that can damage delicate computer equipment.

Manufacturing facilities: Ensures clean air doesn't interfere with production processes.

## Invest in Clean Air

Regular duct cleaning with Blue Star leads to clean air ducts, promoting a healthier and more productive environment for everyone.





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