



ACME DUCT MAINTENANCE PRIVATE LIMITED

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CERTIFICATIONS



The HVAC Inspection, Cleaning
and Restoration Association



ABOUT US

Acme Duct (previously known as Acme Cleaning Services) was established in Oct 2006 at its present base, Chennai, India. With sole motto of providing excellent Air Quality solutions to its clients with efficient planning whilst implementing industry best practices at affordable prices.

Acme Duct believes in delivering the best to ensure its clients' get the best service when it comes to commercial duct cleaning. We have more than 10 years of experience and specializes in duct cleaning works of all types and serve Hotels, IT Companies, Educational Institutions, Aviation, Manufacturing and many others sectors to name a few. We are certified by organisations like NADCA (National Air Duct Cleaners Association, USA), IKECA (International Kitchen Exhaust Cleaning Association, USA) and also hold NFPA (National Fire Protection Association, USA) Membership. By complying to these standards and certifications we make sure our client get the best duct cleaning possible in the industry. Our technicians are highly skilled and adopt a safe, efficient, and professional approach when it comes to commercial duct cleaning. Having a satisfied client is the best reward any organization could get and we at ACME take every possible effort within our socially & ethically possible reach to gain one.

We at ACME offer a complete professional solution for all your duct cleaning needs from air vent to kitchen to laundry exhaust cleaning. From initial assessment to deep cleaning we provide an exemplary service. Our staff is fully trained and very experienced. We are committed to 100% customer satisfaction and we pride ourselves on an outstanding level of service. A scheduled cleaning program can be arranged for multiple sites that we can manage on your behalf.

CERTIFICATIONS / MEMBERSHIPS



INTERNATIONAL KITCHEN EXHAUST CLEANING ASSOCIATION
Standard for Cleaning of Kitchen Exhaust Ducts



*The HVAC Inspection, Cleaning
and Restoration Association*

NATIONAL AIR DUCT CLEANERS ASSOCIATION
Standard for Cleaning of Air Conditioning Ducts



NATIONAL FIRE PROTECTION ASSOCIATION
Standards & Codes for Prevention of Fire inside the Ducts

OUR SERVICES

- ❖ AIR CONDITIONING DUCT CLEANING
- ❖ KITCHEN EXHAUST DUCT CLEANING
- ❖ LAUNDRY EXHAUST DUCT CLEANING
- ❖ FRESH AIR DUCT CLEANING
- ❖ AHU COIL CLEANING
- ❖ FCU COIL CLEANING
- ❖ CONDENSER COIL CLEANING
- ❖ DG/BOILER CHIMNEY CLEANING
- ❖ WATER TANK CLEANING

AC DUCT CLEANING

Just because you can't see it or smell it does not mean your HVAC system isn't posing a potential danger to your health!!!



According to reports by well known health care organizations indoor air quality is a paramount environmental health care concern. The indoor air we breathe is up to 70% more polluted than outdoor air hence Indoor Air Quality is a major concern because we spend majority of our time indoor, roughly about 90%.



Indoor air pollution is bigger killer than outdoor air pollution in India with the recent global burden of diseases report listing the former as second biggest killer and later as fifth largest. Indoor air pollution is second biggest killer after high blood pressure in India. About 1/6 people who suffer from allergies do so because of the direct relationship of the fungi and bacteria in the air duct systems

What is Duct Cleaning?

Duct cleaning is an integral part of solving indoor air quality problems. "Source removal" technique for cleaning ducts is one among those globally endorsed by various organizations. These techniques utilize special vacuum equipment, brushes, and compressed air to agitate the dirt in the ducts. Properly cleaning air ducts is not a quick job. It usually takes between 6 - 8 hours for an office space of 12000-15000 sq. ft approximately. The duct cleaner should use equipment recognized by the National Air Duct Cleaners Association (NADCA). This equipment portable negative air power vacuum equipped with HEPA filters. A reputable professional will use the correct equipment, take the required time to do the job right, not damage your system during the cleaning process, and clean both the ducts and air conditioner components.

Benefits of Air Duct Cleaning

- Less Internal Dust.
- Improves Indoor Air Quality.
- Improves efficiency of the cooling/heating system.
- Saves money on Maintenance & Electricity Bills
- Reduced allergy symptoms

KITCHEN EXHAUST DUCT CLEANING

Is Your Kitchen Exhaust System FIRE Proof??



Grease, a product of accumulation of cooking oil in ducts over a period of time, is highly combustible in any form, as per a reports every year 11,200 structure fires are reported by eating and drinking establishments. 80% of these fires originate in the cooking area, which can then explode into the exhaust system. Keeping a grease-free and fire-safe kitchen exhaust system can protect restaurants from fire damage. Regularly maintaining the kitchen exhaust system will ensure a safe & hygiene environment for cooking.



What is Kitchen Exhaust cleaning all about?

Kitchen exhaust cleaning (often referred to as "hood cleaning") is the process of removing grease that has formed on the walls of ducts, hoods, fans and vents in restaurant kitchen exhaust systems. Acme Duct offers specialized services for restaurant kitchen grease exhaust hood systems. We are dedicated to our trade, and offer the most knowledgeable and well trained kitchen exhaust grease hood cleaners and service repair technicians.

Frequency of Kitchen Duct Cleaning

- Kitchen exhaust systems generally require cleaning monthly to annually depending on many factors.
- The greatest factor governing required cleaning frequency is the volume of cooking and severity of the cooking operation. Configuration of the exhaust system may also dictate increased frequency.
- The cleaning frequency of the exhaust system should be specified to keep the system free of fuel load sufficient to support fire and operating at maximum efficiency.
- Regular cleaning of grease filters greatly reduce system loading and remain recommended.

Benefits of Kitchen Exhaust Cleaning

- Reduced risk of kitchen fires
- Enhanced working environment for kitchen staff
- Improved ventilation for smoke and odour removal

LAUNDRY EXHAUST DUCT CLEANING

How hot is your Laundry? / feel like working in a furnace?



Every commercial laundry has a duct or series of ducts – the exhaust system – that remove the hot, moisture-laden air from dryers and exhaust it outdoors on the roof or via an outside wall. This hot air is filled with lint particles that, over time, deposit inside the duct. Lint can stack up until it is inches thick. Regular maintenance is needed to remove the accumulation. When maintenance is ignored, the lint buildup – which can eventually occupy 50-75% of the duct – can cause a lot of problems



The common signs that a laundry exhaust needs cleaning include:

- Clothes taking too long to dry.
- Excess lint buildup in the ducts, causing a fire hazard.
- Dryer units automatically turning off because the heat is not exhausting.
- Higher concentrations of lint in the indoor air.
- Rusting of the ducts from holding wet lint for long periods.

Of all these things, fire is by far the number one concern. The lint buildup not only creates a fire hazard, but it inhibits fusible (low melting point) links on the fire dampers inside the duct that are supposed to close during a fire to prevent the flames from spreading. If the links are coated with lint, they may not be able to melt at the proper temperature so the fire damper may not close. Air quality is another issue, you get excess lint into the air because the exhaust can't take it out and the lint gets into the heating and air conditioning system. Lastly, if you're not getting the right flow through your vents, the back pressure can trip a relay switch and shut your dryer off.

Cleaning laundry ducts requires openings in the ducts so that lint can be removed (sometimes by crawling through the ducts). Even though building codes require that most laundry ducts be initially installed with such "access doors," occasionally one or a few may need to be added so a thorough cleaning can be done. (We have found that those who install the ducts do not necessarily know how much access is required for proper cleaning.) In essence, there are plenty of good reasons for maintaining the exhaust systems in a commercial laundry setting. A regular cleaning schedule is part of any recipe for a smooth-running operation and is strongly recommended.

FRESH AIR DUCT CLEANING

How Fresh is the Fresh Air?



In any commercial building fresh air intake is necessary for the occupants inside the facility. Normally 10 – 15 cycles of air change per hour is mandatory for a healthy breathing. When fans intake fresh air from the outer environment they also bring in pollutants like dust and bacteria which settle inside the duct and form mold growth. Over a period of time these ducts are filled with nuisance dust and pollens which pollute the indoor air quality.



The most effective way to clean air ducts and ventilation systems is to employ source removal methods of cleaning. ACME cleaning services does this by placing the duct system under negative pressure, using one of our high powered HEPA filtered vacuuming systems. While the vacuum draws air through the duct system, air whips, rotary brushes and other cleaning devices powered by an air compressor are inserted into the air ducts to dislodge any debris that might be stuck to the interior surfaces. The debris can then travel down the ducts to the vacuum, removing it from the system. We have a highly trained team of

NADCA certified technicians who can clean your HVAC system. We have experience in cleaning shopping malls, medical facilities, government buildings, hotels/restaurants, big/small kitchen/cafeterias, stores and high-rise buildings. Our robotic cleaning system allows our technicians to access even the most difficult locations to perform a professional air duct cleaning.

According to NADCA's energy savings research project, cleaning even lightly-fouled heating and cooling systems can result in energy savings of 11 percent. In addition to these savings, consumers who have their HVAC systems cleaned can benefit from improved indoor air quality, reduced maintenance costs and extended life expectancy for the heating and cooling system.

Fresh Air Duct Cleaning helps you:

- Relieve allergy / asthmatic Symptoms
- Removes contagious airborne allergens
- Extract construction/remodeling dust, dirt, drywall dust, hair particles/pert dander, pollen, bacteria & mold.

AIR HANDLING UNIT CLEANING

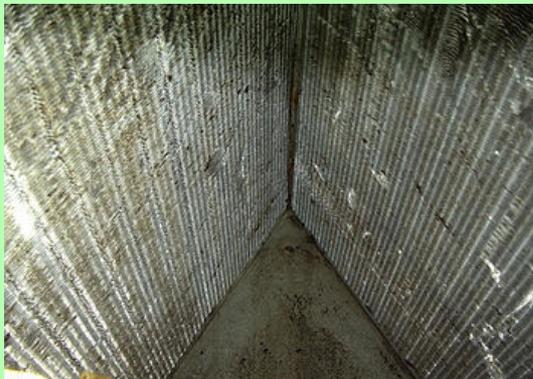
Poor Cooling and Low Air Flow?



The air handling units are very important parts of the central air conditioning plants. As the name suggests air handling unit is the box type of unit that handles the room air. It comprises of the cooling coil over which the hot return air from the room flows, gets cooled and flows back to the room to cool it.

sweating condensed water, the water mixes

with the dust present and forms a sticky sludge on the coil. Over a period of time the sludge becomes solidified and blocks the air passage through the coil leading to low air flow and poor cooling.



Once the inspections are conducted, we give you a clear assessment, cleaning and restoration strategy for the air handling unit. We provide the following levels of cleaning:

Level I

- Brushing the evaporator coil on both sides for removal of dry debris.

Level II

- Air washing with high pressures compressor air for removal of dry duct between the fins of the evaporator coil.

Level III

- High Pressure water wash with application of sludge removal chemicals. This method is used when the flow capacity of the coil falls below 60% and generally take 6-10 hrs per coil depending on the size.

Benefit of Cleaning the AHU

- AHU cleaning practices help keep condensate pans, blowers, and heat exchange surfaces (coils) clean and free of corrosion and buildup.
- Keeping these same systems free of build-up improves indoor air quality.
- Extends the life of the systems and greatly increases their efficiency.
- Save up to 15-20% energy if coils are maintained clean.

FAN COIL UNIT CLEANING

Musty smelling Rooms?



A fan coil unit (FCU) is a simple device consisting of a heating or cooling coil and fan. It is part of an HVAC system found in residential, commercial, and industrial buildings. FCUs offer the most economic method of air conditioning, measured against VAV and main duct supply, has minimal main ducting, offer optimum flexibility and zone control

Why Fan coil maintenance is required?



Industry and equipment manufacturer standards recommend that twice a year routine maintenance should be performed to both maintain the mechanical components of the fan coil unit and to ensure efficient operation of the unit. Fan coil units that lack proper maintenance work harder and result in a drop of efficiency in the unit. This results in the main central heating and cooling plant to work that much harder, leading to higher energy costs. The fan coil unit consists of mechanical moving components such as fan, fan motor, control valve and thermostat that need to

be inspected and lubricated to prevent premature failure. Routine preventative maintenance can help minimize the risk of microbiological growth (mold). Key ingredients for microbiological growth are moisture and dust/dirt. Routine maintenance provides for vacuuming/cleaning of the interior components of the fan coil unit. Although there is no guarantee of the elimination of microbiological growth due to the design of the unit, the materials used within the unit and the conditions within the suite; routine maintenance does help to minimize the risk of this occurring.

Benefits of FCU Cleaning:

- Increase HVAC operating efficiency.
- Extend equipment life.
- Improve indoor air quality.
- Lower cost of operation.

CONDENSER COIL UNIT CLEANING

Cool air costing a fortune?



Condenser coils are placed outside the buildings where waste heat can be dissipated to the outdoor air as heated gas inside the coil returns to its liquid state under pressure. Outside units are susceptible to collecting dust, pollen and other debris. Condenser runs more efficiently when excess heat leaves the system quickly, A coil fouled with dirt and grime cannot supply proper heat transfer and results in greater energy consumption. Equipment operating with dirty coils can use up to 37% more energy than those with clean coils.



Additionally, a dirty system's cooling capacity can be reduced by as much as 30%. Dirty coils increase operating pressure and temperatures that breakdown the compressor's lubricant and can result in equipment failure. A failed compressor means no cooling and costly repair, so keeping the coils clean can lower utility bills and lengthen the lifespan of the system.

Generally, a stiff nylon brush, a can of commercial cleaning solution and a hose are usually sufficient to remove any build-up of dirt. If the unit has not been cleaned in some time, it's best to call a professional AC service to clean the coils thoroughly. We are NADCA certified professional with a decade of experience in coil cleaning using environmental friendly chemical compounds and methods.

Benefits of CCU Cleaning:

- Increase HVAC operating efficiency.
- Extend equipment life.
- Improve indoor air quality.
- Lower cost of operation.

CHIMNEY SWEEP

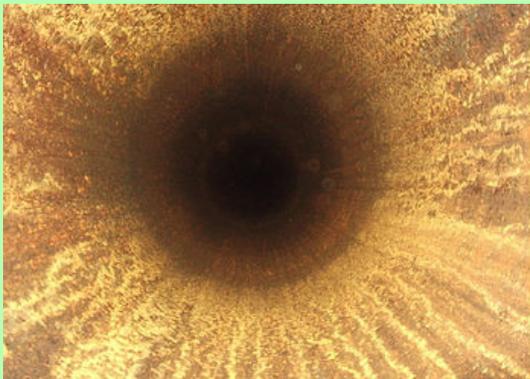
What is Soot and why it is Dangerous?



Chimney soot is a byproduct of the combustion process. It is a fine black to brown carbon powder that is formed through incomplete burning of hydrocarbon fuel. This powdery brown or black dust sticks to the inside of chimneys (sometimes escaping into the air) and carries a few risks of lung hazards and Respiratory issues.

Creosote/soot accumulation, is the primary reason for cleaning a chimney. If the buildup of soot on the flue's inside surface ignites, a chimney fire results. Chimneys need periodic cleaning to prevent this

buildup and thereby reduce the possibility of a chimney fire.



Sweeping of chimneys/flues employs multiple methods of creosote/soot removal which largely vary with the type, construction and the build of it. We at ACME employ the dual line method which involves scrubbing the chimney from inside using a set of ropes and brushes, post which the chimney is vacuumed to ensure all remaining sediments have been collected and chimney is ready for operation.

Our processes are streamlined with that of NACS (UK), National Association of Chimney Sweeps.

Benefits of Chimney Cleaning:

- Get rid of smoke efficiently.
- Prevent fires due to soot accumulation.
- Prevent harmful gases from accumulating.
- Prevent structure damage of the smokestack.
- Lengthen chimney life.

WATER TANK CLEANING

Out of site is Out of Mind! So is your water quality.



How often do you clean your facility water tanks? Water tank cleaning is one of the most ignored activity in today's busy and urbanized society.

This attitude, however, can result in serious health issues. According to a World Health Organization report, diarrhea disease accounts for an estimated 4.1% of the total DALY global burden of disease and is responsible for the deaths of 1.8 million people every year. Contaminated fresh water, used in the preparation of food, can be the source of

food borne disease through consumption of the same microorganisms.



Water storage tanks must be kept clean to prevent sludge formation, sediment and scale all of which provide favorable conditions in which bacteria can grow. Neglected Sump & Overhead Tanks are extremely high-risk areas for the spread of disease, as bacteria proliferates in contaminated or stagnant conditions.

Examples of systems that present a risk:

- Cooling towers
- Evaporative condensers
- Hot and cold water systems
- Humidifiers
- Kitchens and baths

Benefits of water tank Cleaning:

- Keeps tanks clear of sediment and silt
- Prevents rust and corrosion caused by debris and organic material
- Keeps your water supply clean and fresh
- Reduces tank maintenance and costs
- Ensures compliance with health and safety regulations
- Prevents blockages and leakages which can lead to shut-offs
- Prevents disease outbreaks from dangerous legionella bacteria among others
- Protects associated water systems such as valves and pipes from damage

OUR CLIENTS





COUNTING....

REGISTERED OFFICE

ACME DUCT MAINTENANCE PRIVATE LIMITED

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