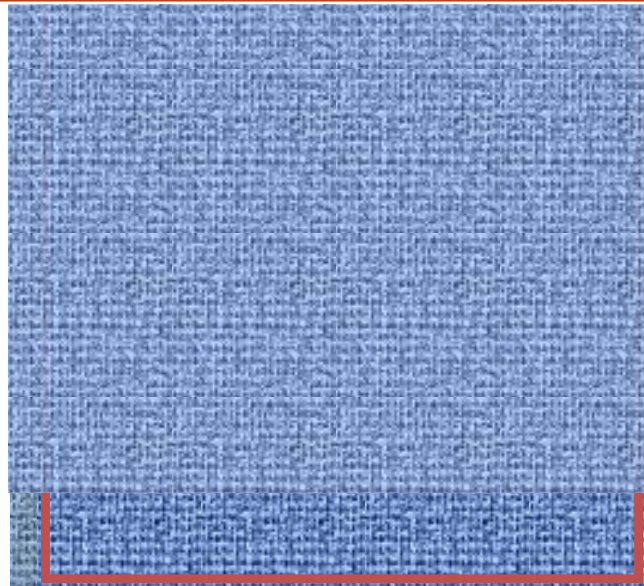




# HVAC MAINTENANCE TIPS YEAR ROUND



# TABLE OF CONTENTS

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INTRODUCTION.....	4
CHAPTER 1.....	7
HVAC Maintenance And Repair Regularly Maintain The Efficiency Of Your Furnace And Air Conditioner.....	7
CHAPTER 2.....	11
Why You Should Service and Repair Your HVAC System on an Annual Basis.....	11
CHAPTER 3.....	14
The Importance Nature Of Routine Hvac Maintenance .....	14
CHAPTER 4.....	17
HVAC System Tune Up .....	17
CHAPTER 5.....	20
HOW HVAC Preventive Maintenance Plans Can Help You Save Money.....	20
CHAPTER 6.....	25
Important Procedures for Commercial HVAC System Maintenance .....	25
CHAPTER 7.....	28
How Homeowners and Property Managers Can Perform Routine Maintenance Trane Air Conditioning Units.....	28
CHAPTER 8.....	30
A Preventative Maintenance Schedule for HVAC Systems Establishes the Standard for Optimal System Performance .....	30
CHAPTER 9.....	32
Effective Methods for Maintaining Heating Appliances .....	32
CHAPTER 10 .....	37
Building Maintenance Techniques That Can Help You Save Money on Your Energy Bills Year- Round .....	37
CHAPTER 11 .....	39
How HVAC Servicing and performing Routine Maintenance Can Help You Save Money! .....	39
CHAPTER 12 .....	42

Tips To Reduce The Cost Of HVAC Services .....	42
CHAPTER 13 .....	45
Tips for Spring Furnace Maintenance .....	45
CONCLUSION.....	48

# INTRODUCTION

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The system that cools and heats your home is often overlooked in our daily lives. We want them to operate continuously and maintain a comfortable temperature throughout the year, regardless of the outside temperature. However, all households must remember to maintain this beneficial system since the cost of replacement or repair far outweighs the expense of a little routine maintenance.

Maintaining your heating, ventilating or air-conditioning system is similar to maintaining your car. Performing routine maintenance like tire rotations and oil changes will help your car last longer.

Unless you pay attention to all of your car's components and perform these easy (but necessary) maintenance procedures, its lifespan will be cut tragically short. It's the same with your HVAC system: regular maintenance will save you money over the long run.

Whether or not you have the know-how or technical knowledge to perform some maintenance on your own, it's important to understand the fundamentals of a standard system check-up. The first step is to inspect your thermostat to ensure efficiency and offers options, such as a programmed type.

Second, ensure that all electrical connections are secure and in good condition. Using your system with faulty connections or frayed wire is not a safe practice. Lubrication of mechanical components is also important, as a smooth-running motor with little friction consumes less electricity and operates more efficiently.

Also verify that the device responds properly to the thermostat's directions and is not sluggish in starting or stopping. As always, if you are unsure how to examine any of these issues, consult your owner's handbook or a licensed professional for assistance.

Even if these more mechanical and technical tasks are beyond your capabilities, every homeowner can perform one type of maintenance that is by far the simplest: filter change.

A correctly sized and chosen filter is important for system longevity and your home's air quality. The capacity of a filter to eliminate allergens, airborne irritants and microbes are important for enhancing your health, air quality and system efficiency.

American Society of Refrigerating, Heating and Air-Conditioning Engineers (ASHRAE) have assigned a value to most HVAC air filters called the Minimum Efficiency Reporting Value (or MERV) and a rating of 11 or greater is recommended as a rule of thumb.

Make sure to inspect your filter after replacement every month or so to determine how often it should be changed, as the interval between changes can range from one to six months, depending on your household and system load.

Proper and routine maintenance of your heating, cooling or ventilation system can save you money and time; therefore, it is the responsibility of each homeowner to care for their specific system to create a less stressful environment.

Another thing you want is for your system to 'crash' completely because you neglected to replace your filter or do regular maintenance. Consult your local qualified repair business for the most current, up-to-date information on extending the life of your system and so saving you money through high-efficiency rates.

An excellent investment for homeowners is a new air conditioner or heating system, and our specialists will do all in their power to protect that investment. A full load calculation is performed at the beginning of each installation visit to identify the exact cooling capacity required for the entire house.

All makes and models are repaired by **McWilliams & Son Heating and Air Conditioning**, and we provide financing for HVAC repairs. To fulfill that need, we advise calibrating a

system. Prior to leaving the house, our factory-trained specialists work tirelessly to ensure that every system is installed according to the manufacturer's specifications and is properly tested.

A reliable, cost-effective, and efficient HVAC system is essential for the well-being of your family. McWilliams & Son Heating & Air Conditioning provides both comfort and value for the money you spend with them.

McWilliams & Son Heating and Air Conditioning Repair and Installation Services is located in Lufkin, Nacogdoches & Livingston, TX. Visit our website <https://www.mcwilliamsandson.com/>

# CHAPTER 1

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## ***HVAC Maintenance And Repair Regularly Maintain The Efficiency Of Your Furnace And Air Conditioner***

While homeowners rely on their heating and cooling systems to provide a comfortable indoor environment throughout the year, many overlook periodic maintenance and updates.

They expect their HVAC system to function when they require it, without ever cleaning, modifying or paying it much attention and, when the heater fails to operate in the middle of January or the air conditioner fails to function during a 100° heat wave, these negligent homeowners find themselves in a pickle.

The most effective approach to avoid furnace or air conditioner emergencies is to get them serviced regularly by a competent HVAC provider. Routine cleanings, service and repairs will extend the life of your heating and cooling system and keep you comfortable and healthy regardless of the outside temperature!

### A/C units

Most manufacturers recommend annual air conditioner service. This routine maintenance will uncover potential problems and check coolant levels, condenser efficiency and other performance-related areas, ensuring that your air conditioner operates at peak efficiency. This is true for all sorts of air conditioners, from heat pumps to conventional cooling machines.

The size of air conditioning systems is a frequent source of contention. Not all homes have the necessary size central air conditioner or ductwork to distribute the cooled air

throughout the house. Either of these issues can cause your air conditioner to work excessively hard, resulting in future problems.

It's advisable to have an air conditioner technician check your existing system for an appropriate scale before installing any new air conditioner or ducting. You should check the refrigerant in your old air conditioner to see if it still contains Freon. The Environmental Protection Agency (EPA) recently prohibited the use of this material because it is environmentally harmful and should not be utilized.

Replace your air conditioner's coolant with an environmentally friendly product like Puron to keep you and the environment safe. The old refrigerant can be safely disposed of and the new "green" air conditioning technology can be installed in your air conditioner by trained professional air conditioning professionals.

## Boilers and Furnaces

As with air conditioners, it is recommended to clean all types of furnaces and boilers at least once a year. Eliminating collected material enables the furnace repair professional to identify and resolve other concerns before becoming larger ones! The boiler and burner tray should be cleaned annually to ensure optimum combustion and heating, particularly with steam boilers.

Also, you may not realize it but maintaining your heating system regularly can increase your comfort and quality of life.

Furnace difficulties can result in humidity imbalances: too much humidity or too little can create health concerns such as mold growth, asthma attacks, itchy eyes and nose bleeds and negatively affect woodwork and windows. An experienced heating technician can diagnose problems with your furnace and adjust it to maintain optimal humidity levels and maximum comfort in your home.



Your furnace or boiler is almost certainly in need of an upgrade or repair, particularly if it is an older model. Although steam boilers are more common in older homes and require frequent maintenance, this current heating infrastructure can be strengthened with minor alterations or improvements. Among the fixes advised to increase the efficiency and life of your steam boiler are the following:

- fixing leaking radiator valves
- substituting a spark ignition for the pilot light
- repairing rusted or damaged pipes
- installing a skim tap system to reduce sludge buildup

Even low-maintenance forced hot water heating systems might benefit from minor modifications. A home heating professional may consider installing an air eliminator to dampen water noise or upgrading to a smaller expansion tank.

### Cleaning of HVAC Systems

Along with routine maintenance and system updates as needed, it is important to have your HVAC system cleaned regularly. The ductwork that connects your air conditioner or forced hot air heating system can accumulate dust, mold, pollen, germs and other allergens; these contaminants are circulated throughout your home each time the furnace or air conditioner is turned on.

By having your HVAC system cleaned regularly, you can prevent the spread of these potentially toxic pollutants throughout your home.

While these **HVAC system repairs and maintenance** may seem self-evident, you'd be astonished at how many homeowners often disregard their heating and cooling systems.

By scheduling an appointment with an air conditioning and furnace business [<https://www.mcwilliamsandson.com/>] once a year, you can maximize the effectiveness of your HVAC system and maybe avoid emergency problems. Maintain your heating and cooling systems properly and they will keep you comfortable throughout the year!

# CHAPTER 2

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## ***Why You Should Service and Repair Your HVAC System on an Annual Basis***

Almost all authorities and specialists in the air conditioning and furnace industry recommend that you get your HVAC system inspected, serviced and tuned up professionally at least once a year. On the other hand, many homeowners overlook this important habit, which helps keep the system operating at peak efficiency and extends its usable life.

While it may seem like an unnecessary expense, postponing annual maintenance can end up costing you significantly more money in the long run, you're shortening the life of the system.

With decreased efficiency, you're likely to incur higher energy bills, as more fuel is required to perform the same amount of work and that's not all; a house with an inefficient air conditioning system puts your safety and health in danger.

Obtain professional assistance

It's important to schedule a yearly service visit on your calendar. Still, it's even more important to verify that the work is performed by a respected heating and air conditioning provider.

This makes sense - a professional will evaluate the unit to ensure it is operating efficiently and inspect your home to determine if any issues could affect the HVAC unit's performance.

## Furnaces for gas and oil

If you have a natural gas or oil furnace, scheduling an annual inspection and servicing visit is even more important. This is because such furnaces produce carbon monoxide during the combustion process.

While an efficient system will keep this gas out of your house or workplace, if it malfunctions, this dangerous gas will find its way into your rooms, where it will be lethal to the occupants.

The potential of fire is another inherent threat with a faulty gas/oil furnace. These are typically highly flammable fuels, which means that if trash, dust and other particles accumulate too close to the source of fuel, they might catch fire, potentially destroying your entire home or endangering the lives of any occupants.

## Money converses

Maintaining an annual service schedule saves you money. How do you inquire? A properly functioning HVAC system consumes less fuel than one that is malfunctioning. Because heating fuel is relatively expensive, keeping the unit will result in you using less fuel and spending less on energy.

Professional contractors are capable of fine-tuning the furnace and overall system to achieve maximum efficiency. They will replace any worn parts that may fail before the next service date, ensuring that you are not left with the possibility of a breakdown during an important time, such as the dead of winter.

As you can see, having and adhering to a yearly maintenance schedule for your air conditioning and heating equipment is a prudent decision in every way.

McWilliams & Son Heating and Air Conditioning is a full-service, licensed and insured HVAC contractor serving Lufkin, Nacogdoches & Livingston, TX.. We are capable of

repairing, servicing and installing a wide variety of equipment, including furnaces, central air conditioning units, indoor air purifiers and tankless water heaters. 24/7 Emergency Services are available by calling (936) 465-9191.

# CHAPTER 3

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## *The Importance Nature Of Routine Hvac Maintenance*

HVAC systems are becoming more prevalent. Nowadays, units can be found in residential and commercial structures. The issue is that many individuals are still unaware of how to care for it properly. Some individuals believe that this type of machinery requires no maintenance at all.

Proper maintenance can be the difference between a well-ventilated and comfortable living or working environment and one that is oppressively humid and hot. Without routine maintenance, you may also find yourself in the market for a new system after only a few years of use. A system that is not maintained regularly might also increase your electric cost.

Summer is the most dangerous period for an HVAC system to fail. Can you picture living in a climate that lacks enough ventilation and air conditioning? This is why you should not wait until summer to begin monitoring your system. What you should truly do is keep an eye on your system throughout the year.

The following are some more points highlighting the important nature of routine HVAC system maintenance.

Maintaining your system regularly might help it run more efficiently. Do you know that something as innocuous as dust can affect the functioning of your HVAC system?

This is why cleaning is an important component of routine maintenance. When dust accumulates in the system, it will cease to function properly. However, do not attempt to clean the system yourself. Always contact a professional for system maintenance.

An unclean system might trigger allergies. Never forget to replace the filters. Are you aware that your HVAC system's filters should be changed every three months? Certain individuals believe that filters can last a lifetime.

Replace the filter on your system on a regular basis if you want to keep it clear of dust and allergies. A blocked filter is among the most likely culprits if your system isn't working properly or at all. You can will yourself a lot of trouble by changing the filter on a regular basis.

Avoid moisture-related issues. A malfunctioning HVAC system can result in moisture concerns in your house or office. If you have a huge system, you are more likely to encounter this issue. Moisture can wreak havoc on documents and even equipment. This issue is easily avoidable with routine system maintenance performed by skilled personnel.

You may increase the efficiency of your HVAC system by taking certain proactive measures. Homeowners have more power than they believe in the operation and lifetime of their heating and air conditioning systems. As the proverb goes, a pound of prevention is worth a pound of cure.

### Alternate Your Filters

Changing the filters in your system regularly is one of the most simple maintenance jobs that any homeowner can perform. Monthly replacements are suggested, even more so when HVAC systems are used daily. It's prudent to keep a supply of filters on hand and ready to use. Having to dash to the store to obtain a filter often results in procrastination.

Choose an easy-to-remember day to ensure that you do not forget. The first of the month, the full moon, the fifteenth of the month or the second Saturday are all suitable days. If you believe that 13 is a lucky number for you, change your filters on the thirteenth. It's all about jogging one's memory.

## Maintain Clean Outside Units

Keep your outdoor unit clean of debris and grime to ensure that your HVAC systems operate effectively. On outside heating and air conditioning equipment, leaves, grass and dust tend to gather. Unless these particles are removed from the machinery, they can clog the works. Ascertain that the cement pad on which the unit is standing is also clean and dry.

## Tune-ups on an annual basis

Another option to keep your HVAC systems running well is to have them serviced annually by professionals. If you use yours year-round, you may wish to consider seasonal service.

Having a competent service expert inspect all moving parts before the summer's heat or the winter's chill is a prudent decision that will help ward off major problems or failures when you least expect them.

Many other techniques to keep your heating and air conditioning device operating efficiently include the following: Maintain open vents, bedroom and bathroom doors and avoid overloading your machine. Some homeowners believe they are saving money by blocking vents or closing doors to seldom-used areas.

This is an error; the ductwork is supposed to flow in a specified direction. If a portion of the airflow is blocked, the entire system may struggle to function properly. Maintain open vents to avoid overworking your equipment.

Your HVAC system is a significant piece of equipment in your home. If you want it to perform effectively, you must take care of it. Replace filters, maintain the unit clean, have it serviced regularly and keep the vents open. All these procedures will contribute significantly to the longevity of your heating and air conditioning systems.



# CHAPTER 4

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## *HVAC System Tune Up*

It is just as important to tune up your HVAC system like your automobile. Like your neighborhood mechanic, your neighborhood maintenance specialist will test your AC system to operate properly. It makes no difference whether you recently purchased your home or company or have owned your HVAC system for a lengthy period.

Perhaps the former owner did not know or recall how often maintenance was performed. Perhaps he can give you a maintenance schedule but has no idea about the quality of work or whether the technician received adequate training and expertise. It is crucial to schedule an appointment with a technician who you know is both experienced and licensed to do a maintenance check immediately.

Even after spending the time and effort necessary to study and select the ideal HVAC system for their home or business, people often forget to schedule routine maintenance inspections, most likely owing to being preoccupied with other pressing problems.

Before you realize, a year has passed and you have yet to schedule annual maintenance checks. If you want to ensure that your system continues to function properly for a long period, you must remember to check and test it regularly. The HVAC system in your house or office is important, especially during the summer heat or those bone-chilling winter evenings.

If your HVAC system is left unmaintained for an extended period, it will begin to accumulate an excessive amount of dust and filth. Similarly, the condensing unit outside will become covered with dust, dirt, fallen tree limbs and leaves, reducing its effectiveness. If this pattern continues year after year, the HVAC system's operating efficiency will decline by around 5%.

After five years of neglect, your pricey HVAC system will operate at approximately 75% of peak efficiency, increasing the system's workload and driving your electricity bill through the roof.

To save money on your power bills, make sure your **HVAC system** is in good operating order. A large amount of your utility or electricity cost will go to heating, ventilating, and air conditioning systems.

A routine maintenance program can help you save money on your utility bills while also extending the life of your HVAC system. You should have a skilled technician tighten and inspect the connections and measure the motor's current and voltage to make sure everything is working properly.

Another safety step the expert will take is to inspect the firebox for holes, which will minimize the chance of fire and carbon monoxide poisoning. It is important to plan regular maintenance checks for your HVAC system for the safety of your personnel on the job and your family at home.

For those who tend to forget things, the option of signing up for a yearly preventative maintenance routine is available. As a result, your HVAC system will run at maximum efficiency.

Maintaining your system on a routine basis is critical to ensuring top performance and maximising its worth. An inexpensive maintenance check will save you thousands of dollars in costly repairs down the road. Remembering to replace the filter according to the manufacturer's directions is one way homeowners and business owners can help their system last longer.

When disposable filters become dirty, they should be discarded and changed right away. After washing and allowing them to dry completely, reusable filters can be put back into the machine. When you keep up with the maintenance on your HVAC system, it will last longer, be more energy-efficient, and keep you more comfortable throughout the year.

McWilliams & Son Heating and Air Conditioning qualified, professional technicians have the training and knowledge necessary to perform all routine maintenance on your HVAC system. If your system has not been serviced or inspected in the last year or two, contact us and schedule an appointment for you.

McWilliams & Son Heating and Air Conditioning Repair and Installation Services is located in Lufkin, Nacogdoches & Livingston, TX. Visit our website <https://www.mcwilliamsandson.com/>

# CHAPTER 5

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## ***HOW HVAC Preventive Maintenance Plans Can Help You Save Money***

It's easy to overlook your Heating, Ventilating and Air Conditioning (HVAC) system until it stops providing the level of comfort you expect. This can be a serious issue during the summer's heat and humidity if you live in Atlanta. Planned maintenance can help your Atlanta HVAC system maintain a consistent level of comfort throughout the summer and perform all year optimally.

You should plan on having your HVAC equipment inspected at least twice a year. The air conditioning system should be inspected once a year in the spring when temperatures are reasonable. The other should occur in the fall to inspect the heating and humidifier systems before the onset of cold weather.

Generally, you can save money by engaging in a planned maintenance agreement with your Atlanta HVAC service business. They will almost certainly offer you a discounted fee for scheduled service because it benefits the service firmly in many ways. This enables the service provider to keep their personnel busy during periods of calm weather when they receive fewer emergency calls.

Also, it reduces emergency calls from customers since well-maintained HVAC equipment runs more reliably. If you called once in the spring and once in the fall for a checkup, you would receive the same benefit but it would likely cost more than if you did plan maintenance.

Certain less ethical HVAC repair businesses will encourage planned maintenance to get their foot in the door and "discover" reasons to sell your service or equipment. Their technicians are compensated for persuading you to purchase products and services.

As a result, you should choose an HVAC service firm that does not pay commission to its technicians. Also, you want a business that permits professionals to take the time necessary to complete a comprehensive job and does not impose a time limit on personnel performing planned inspections and maintenance on your HVAC system.

If you are paying an agreed-upon amount for planned maintenance, it is worthwhile for a reputable company to let their specialists complete the task thoroughly, as it costs them more to have them back to correct an error.

Also, it benefits your HVAC service business to understand the specifics of your system so that they can have an adequate inventory of parts and supplies for their clients' systems—they'll be prepared to supply remedies at a moment's notice if problems do emerge.

To this end, you should receive a comprehensive written report outlining the items inspected and any maintenance conducted on your system. This is information that the HVAC service provider would have to maintain on hand for their benefit regardless.

Conducting periodic preventive maintenance on your heating, ventilation and air conditioning equipment is one of the most effective strategies to save money and conserve energy in your business. I am not referring to routine filter replacements but a thorough task-based preventative maintenance program by qualified experts.

## DECREASED DOWNTIME

Consider the last time your equipment failed. It most likely occurred during a period of intense heat or cold. It most likely occurred during business hours, which means your production line was slowed down, you had to send staff home or you gave them some additional time to stretch at the water cooler.

The point is that time was lost and time equals money. Divide your daily paycheck total by the downtime hours to estimate the amount of money lost.

Preventive Maintenance programs minimize downtime by having qualified technicians conduct operations aimed at avoiding breakdowns. Trained eyes familiar with your equipment's usual performance, along with state-of-the-art testing equipment, can predict and prevent certain problems.

## EFFICIENCY IMPROVEMENTS

When your HVAC equipment is operating at maximum capacity, you save money on your energy expenses. For the sake of efficiency, have you ever seen an employee bring in a space heater or electric fan for personal comfort?

What is the impact on your energy consumption? To put it another way, it's more expensive to waste energy than it is to maintain your HVAC system properly.

## INSTANT EQUIPMENT REPLACEMENT

The average lifespan of the box on your roof is 15 years, according to the (ASHRAE). Nearly 30% of the boxes are changed during the first decade.

That is, providing the equipment has been maintained and serviced appropriately. Professional preventative maintenance is an excellent approach to optimize the value of your equipment investment, whereas carelessness results in premature failure.

## OPERATING COSTS FOR HEATING AND COOLING SYSTEMS

How much money was spent on parts and supplies during the last twelve months? Not only filters and belts but did you need to replace any other components such as compressors, motors or coils? Also, these statistics represent your expense.

Add service calls to the mix now. To get what you wanted, it's going to need more than one phone call to a service provider. For how long were you in charge of managing this procedure? Real-time evaluation and payment of invoices.

## SAVINGS

A task-based Preventive Maintenance program will save you money in the long run by lowering your operational costs, which will have a positive influence on your bottom line.

The cost of replacing an air conditioner or heater can quickly add up. As a result, preventive maintenance on your home's appliances is critical. You may do this maintenance yourself and help to extend the life of your air conditioner.

Two times a year is the very minimum for this type of maintenance. It's something I only do in the fall, after the leaves have all fallen. Also, in the spring, shortly before the installation of air conditioning systems to battle the summer's sweltering heat.

In order to help you, here are a few suggestions:

1. Remove debris from the area surrounding the exterior unit. Remove any brush or leaves that are tangled around the unit. Brush and leaves may obstruct air circulation when the device is turned on.
2. Inspect the condensing unit from the inside and remove any leaves or debris accumulated. To gain access to the unit, you may need to unscrew the top mesh. Once cleaned, replace the top mesh.
3. Using a coil cleaner, clean the condensing coil. Coil cleaners are available at Lowe's and other HVAC stores. Spray it on and wait for it to foam. Wash it off with a hose and water after 3-4 minutes.
4. Power on the equipment and examine the fan blades. Check to see if they appear to be balanced properly. If the blade is bouncing or making any noises, contact a professional repair shop to repair it immediately to avoid further damage.

5. After turning off the unit, inspect the blower wheel. It should turn freely when turned by hand and be dirt-free.
6. Using a screwdriver, inspect and tighten all of your wire connections.
7. Replace all the air filters in your home. This should be carried out approximately every three months.
8. Inspect the ductwork that connects to your air conditioning system. To execute this task, you may need to climb into your attic or beneath your house. Ascertain that all insulation surrounding this duct is secure and not ripped. Locate and fix any air leaks.

These are the basic preventative maintenance tasks that most homeowners can perform on their own.

Of course, a properly executed preventive maintenance program will cover an additional 10-15 items that require specialized tools and electrical knowledge. If you can afford this (\$150-\$250/year), I strongly advise you to contact a local HVAC service and request that they come to inspect your unit. If you cannot afford it, cover at least the eight items listed above - you may save a lot of money.

By following these criteria, you may determine the type of HVAC service firm you want to perform scheduled maintenance on your system. Also, by performing scheduled maintenance, your HVAC system will last longer and work more dependably.

McWilliams & Son Heating and Air Conditioning Repair and Installation Services specializes in HVAC repair and maintenance. McWilliams & Son Heating and Air Conditioning specialists can perform repairs on any equipment brand at any time of day or night.

Visit <https://www.mcwilliamsandson.com/> to learn more about their services and speak with them about an affordable planned maintenance arrangement.



# CHAPTER 6

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## ***Important Procedures for Commercial HVAC System Maintenance***

Maintaining a well-maintained business is one of the most effective techniques to guide a business in the proper direction. It is crucial to invest in a high-quality HVAC system to ensure that an office or store maintains an ideal temperature. For optimal utility, it should be installed by an expert. Also, it should be maintained regularly to ensure its efficiency.

The following are five important commercial HVAC maintenance operations that should be performed regularly.

### Consider Purchasing a Programmable Thermostat

Electronics manufacturers are now able to produce programmable thermostats that are more efficient and dependable than traditional ones. Investing in one of these modern devices has the advantage of eliminating the need to adjust the temperature settings constantly. That means staff members can easily maintain a steady temperature. As a result, energy waste will be avoided and the business's sustainability will be improved.

### Ascertain that Cooling and Heating Ducts are Sealed Properly

By correctly sealing the heating and cooling ducts, you can increase the effectiveness of the heating, cooling and ventilation system by more than 20%. Seal them with blow-in duct sealant, mastic or foil tape.

The seal functions as an insulator, preventing heat loss while air moves through the ducts. To achieve the best results, concentrate on exposed building areas, such as unheated storage spaces.

### Maintain Consistent Cleaning

Dust and other particles accumulate over time inside the system's internal compartments and at the system's surface. This material can cause overheating and other issues, ultimately reducing the HVAC's efficiency and ability to heat and cool the rooms.

Consider hiring a professional who can completely dismantle and clean the interior and external components. Ascertain that the professional is using the proper cleaning products since some include harsh chemicals that can corrode certain internal components.

### Improve the System

Each day, the market is introduced to new heating and cooling products. One of the most effective strategies to increase overall efficiency is to replace worn-out components with new ones. Over-five-year-old heat pumps should be replaced with a new Energy Star-certified model.

This will result in a 20% reduction in your electricity cost. The new retrofit rooftop units incorporate digital economizer controls and sensors that ensure ventilated air is brought in only when required. The building will be more energy efficient as a result of this controlled ventilation.

### Filter Cleaning and Replacement

Many common respiratory disorders are caused by inhaling contaminated air. Filters that are clogged have a detrimental effect on indoor air quality. On this basis, cleaning

or replacing filters will contribute significantly to creating a safe and suitable work environment.

The maintenance mentioned above will strengthen the overall system's efficiency and durability and potentially raise staff productivity. Ascertain that the replacement parts utilized are genuine to obtain the desired results.

The important nature of air conditioner maintenance cannot be overstated. Whether the establishment is a residence or an office, it is important to minimize irregular HVAC system faults. Since dirt and grime are the leading sources of problems in air conditioning systems, routine maintenance should be performed twice a year.

Typically, maintenance occurs in the spring and fall or at least once a year to prepare for the next hot summer. You can examine the system to determine whether any visible faults require contacting a service professional performing preventative maintenance.

Another reason that air conditioner maintenance is important is to avoid damage to functional components caused by neglect. This will save you money on new parts that may not have failed due to a lack of attention and care. Because preventative maintenance is important for air conditioning systems, you should either execute it yourself or pay a service firm to do it for you.

Finally, air conditioner maintenance is important because it provides you with peace of mind knowing that your air conditioning system has been cleaned. You may relax in the knowledge that the system's functionality has been inspected for any issues that could prohibit you from receiving chilly air in the middle of summer. Lack of cold air when you most need it is important when prioritizing your HVAC preventative maintenance.

# CHAPTER 7

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## ***How Homeowners and Property Managers Can Perform Routine Maintenance Trane Air Conditioning Units***

When a homeowner or property manager properly cares for their Trane heat pumps, air conditioners and furnaces, they may heat and cool your business and house for more than a decade.

You are very busy, so if you can't put in an hour twice a year to do heating and air equipment maintenance, call your local air conditioning repair provider for their low-priced service offered between the heating and cooling seasons. Trane produces top-quality air conditioners, heat pumps and furnaces that have warranties up to 10 years although they should be maintained in optimal condition.

The normal homeowner can remove the circuit breaker to your HVAC several times a year and carefully remove the condenser cover. In most designs, it is situated in the rear beside the unit's coil. Use a garden hose with the water turned down low so you don't bend the fins on the coil, to wash away dirt and debris.

If there is a removable filter, remove it and place the filter in a wash pan or kitchen sink full of hot, soapy water. Let it bathe and clean it softly with soap. Ring out excess water and set it in the sun to dry before reinstalling it.

While it dries, delicately wipe all the other particles away from the device. Wipe down both the external cover and round the springs within. Reinstall the dry filtration system and put the circuit breaker back and turn on the power.

The condensate drain line should be cleaned at least twice a year. Check the drain tube for condensate, as well. To eliminate the dirt that builds up in the drain pipe, try pushing a brush through it. To prevent algae growth in the pipe, mix equal parts chlorine bleach and water and run it through the system as often as necessary.

By maintaining your furnace, air conditioner and heat pump on a regular schedule, you can ensure that they continue to operate properly and help you save money on your energy bills.

At least twice a year, they should inspect their filtering systems and condensate drainage pipe to ensure proper operation of the HVAC equipment, regardless of who manufactured it. However, if your structure has a hard time keeping a comfortable temperature, you may have to clean it four times a year, depending on where your heating and cooling equipment is located.

Because many people are cannot perform routine maintenance on their Trane air conditioner or heat pump, purchasing a maintenance contract from a local air conditioning repair company may be a wise decision.

Replace the air filter once a month at the very least to keep the coils and ductwork clean and operating efficiently. Having a furnace repair and air conditioning specialist clean the unit regularly will ensure that the heating and cooling equipment can continue to cool and heat your structure for many summers and winters to come.

# CHAPTER 8

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## ***A Preventative Maintenance Schedule for HVAC Systems Establishes the Standard for Optimal System Performance***

Owning a home entails much effort. Each appliance has unique maintenance requirements that must be adhered to maintain peak performance. These responsibilities are not always obvious to every homeowner.

A preventative maintenance sheet for HVAC systems details all the steps necessary to maintain a heating unit functioning efficiently. While most homeowners know that filters should be changed regularly, there is much more to properly caring for this costly and vital home item.

Heating systems are initially expensive to purchase and install. Neglecting the heating unit can result in greater energy consumption and a shorter life expectancy. This is an unfavorable outcome for individuals, as the funds necessary to pay for expensive repair charges or replace this appliance are often unavailable.

If you do not already have a maintenance document for the model currently installed in your home, you can obtain one from the manufacturer or a local contractor. Either of you can go over the mentioned maintenance activities in further detail. Each fall, go to this document for dependable heating.

### **HVAC Contractors Make Heating Care Simple and Reliable**

If your time is limited or the maintenance requirements seem foreign, you can rely on heating and air conditioning experts to complete the task efficiently and affordably.

Contractors provide these services regularly and are familiar with the specific requirements for each brand and model.

Their added experience can assist in identifying problems early and saving money. Generally, filter replacements and basic cleaning are not a problem. Anybody can clean the registers, change the filter monthly and clean the unit's exterior.

These are not the only maintenance requirements for a heating system. Each internal component must be inspected and cleaned annually. This entails removing the cover, switching off the main power source and doing a thorough cleaning. Lubrication of moving parts is recommended. Internal filters may need to be cleaned or replaced.

Ductwork can clog and restrict airflow. When neglected, all these maintenance components significantly reduce system performance. Contractors charge a nominal service fee for routine maintenance and provide estimates when a more serious issue is discovered. Each year, a professional will ensure that all tasks on this form are completed.

Every homeowner desires dependable central heating performance. An HVAC preventative maintenance sheet can be used to ensure that a professional is performing all necessary maintenance. It establishes an easy-to-follow timetable for the unit's functioning, ensuring its reliability.

A unit will fail during the most inconvenient time of the year. This is both tragic and inconvenient. Proper maintenance reduces the likelihood of these occurrences. The equipment is kept clean and checked and any necessary repairs are made before the weather turns cold.

If a failure develops due to a lack of routine maintenance, many components may need to be replaced. Not all parts are readily available. Your family may be exposed to the elements for weeks. Following the manufacturer's specifications for your unit can often prevent this and keep your winter energy expenditures low.

# CHAPTER 9

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## *Effective Methods for Maintaining Heating Appliances*

In today's difficult economy, property owners are more focused than ever on keeping their appliances in good working order to save the expense of replacing them. There are a few relatively simple things you can do to ensure your heating and air conditioning devices operate efficiently throughout the year.

While electric HVAC devices are the most prevalent, propane gas, natural gas or oil heating systems are common alternatives to electric heat but require a separate electric air conditioner.

The heat pump is the conventional installation in new residential and commercial construction, particularly in hot climates where all new building includes air conditioning. These systems are commercially viable.

The thrifty homeowner diligently executes homeowner obligations such as changing the filter in their heating and air conditioning system weekly or as recommended by the manufacturer and keeping all accessible components clean. As stated in all owners' manuals and by all plumbers and HVAC sales representatives, performing this easy monthly maintenance significantly extends the life of your heating and air conditioning device.

Also, energy-conscious homeowners will take care to ensure that no furniture, appliances, scatter rugs, toys or dog beds obstruct their system's intake or return vents throughout the home. It is advisable to put filters directly within the intake vents to keep the ductwork clean.



Inspection and maintenance of fans, motors, coils and ductwork is a job for specialists because testing is performed with sensitive equipment and ductwork is often located in a crawl space beneath the home or in the attic.

Most modern units should not require Freon replacement for the air conditioner. Still, older systems may require Freon levels to be monitored annually to ensure the AC operates efficiently throughout the summer months.

Manufacturers, distributors, HVAC specialists and plumbers all strongly encourage annual maintenance regimens. It is typically less expensive to replace parts or perform periodic cleaning and maintenance before a part breaking than replacing the part after it has broken. Also, most units appear to fail when you least expect it, during the coldest months of the year for heating units and the hottest days of summer for cooling units.

To encourage proactive maintenance, most manufacturers and dealers provide service plans that include an annual inspection for less than the cost of a service call. Annual maintenance is often performed at the house owner's convenience and before the unit being required to run.

As a homeowner, you must exercise caution regarding electrical appliances to make your home comfortable. Generally, they rely on their heating and air conditioning system to maintain a healthy and hospitable environment in their homes.

Many of them overlook periodic maintenance and upgrades, which results in issues. They expect their heating and air conditioning systems to function when needed without routine maintenance and repair, which is not always achievable.

As a result, the unit ceases to function during the hottest and most humid summer days or most needed. The most efficient strategy to maintain the efficiency of your system is to contact a heating repair service company for cleaning and adjustments without paying much attention to it.

This HVAC Company will assume all obligations for routine cleaning, service and maintenance, thereby extending the life of your HVAC system and ensuring consistent temperature control. Thus, all heating appliances such as furnaces, boilers, and HVAC systems must be serviced regularly to maintain a healthy and hearty atmosphere.

**Furnace and Boiler Maintenance:** To be effective, all furnaces and boilers must be cleaned at least once a year. Apart from clearing away collected debris, this preventative maintenance enables the furnace and boiler repair professional to address simple issues before they become major ones.

For steam boilers, the burner tray should be cleaned regularly to ensure optimum combustion and heating. Maintaining and servicing your heating system regularly increases your comfort and quality of life. Improper maintenance can result in different health concerns such as asthma attacks, eye itching and bleeding nose, creating serious complications.

Therefore, it is preferable to contact a competent specialist who can resolve all furnace-related issues and assist in making your home as pleasant as possible. If you have an older unit, there are many benefits to regular repair and upgrade since frequent maintenance and repair saves a significant amount of money on existing heating infrastructures.

**Heating and cooling system maintenance:** Like furnaces and boilers, all heating and cooling units require routine maintenance and repair to be efficient. The ductwork attached to the forced hot air system should be cleaned regularly since it collects many dust, mold, pollen, bacteria and other allergens.

By performing routine maintenance and cleaning on your heating and cooling systems, you can avoid harmful substances spreading throughout your home. Duct cleaning helps maintain interior air quality and lowers the likelihood of air filters becoming clogged.

Cleaning ducts and vents increase your system's energy efficiency. There are various heating and cooling repair and maintenance businesses that can handle all aspects of system maintenance—taking care of your heating and cooling systems guarantees that you are comfortable throughout the year.

As a result, residents must maintain their heating appliances or heating or cooling system to ensure optimal performance. For the most part, heating and cooling systems operate quietly and effectively in the background. These systems require little maintenance other than changing the filters on a regular basis.

Also, there are few things you should be doing all year long to avoid being surprised when the summer temperatures start to increase. Consider scheduling regular maintenance for your air conditioning system rather than waiting until the last minute.

After that, your perspective will change. Summer is not just a tough time to schedule air conditioning maintenance, but it's also the worst time to be without air conditioning.

### Self-Maintenance

While an air conditioning technician should perform most of your maintenance, there are a few tasks that you should perform regularly. When your unit is turned on for the first time in the spring, check to ensure nothing obstructs the condenser unit. Trim any overgrown grass; remove debris and other items that may obstruct airflow through your unit.

After removing any significant obstacles from your AC unit, spray it clean with a water hose to eliminate any collected dust and small debris. In addition, now is a great time to check your air filters. If your system is often used, you should update the filters every 30-60 days. This is a big step in developing an effective system.

## Professional Cleaning and Inspections on a Regular Basis

Before utilizing your air conditioner for the first time, be sure to schedule a routine maintenance call and keep your home clean and debris-free.

In order to help you avoid premature system breakdowns, an HVAC professional will come to your house and evaluate numerous mechanical components of your system. As part of the inspection, they'll check your system's coolant levels, connections, and general operation.

You can save yourself a lot of hassle by doing routine maintenance on time. When it's hot outside, your air conditioning system is under the most strain, therefore problems are more likely to occur.

However, identifying and resolving any issues before their occurrence will help you avoid a catastrophic collapse during this period. To maintain the best degree of comfort throughout the year, it is important not to take routine maintenance and repair for granted. Not only will you avoid the instant agony associated with a mid-summer failure but your equipment will last significantly longer as well.

All makes and models are repaired by McWilliams & Son Heating and Air Conditioning, and we provide financing for HVAC repairs. When it comes to family's comfort, you want air conditioners and heaters that are trustworthy and cost-effective as well as efficient. Value and comfort go hand in hand with McWilliams & Son Heating & Air Conditioning.

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# CHAPTER 10

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## ***Building Maintenance Techniques That Can Help You Save Money on Your Energy Bills Year-Round***

Heating and cooling bills account for 60% of energy costs in many households and companies. Inadequately maintained or outdated equipment can result in emergency HVAC service calls that could have been avoided with simple facility upkeep.

Save money on costly repairs while lowering your monthly energy costs by following these simple tips.

### Set Your Thermostat to the Correct Settings

You should save energy by adjusting your thermostat to heat or cool your house or business only when people are there. When you get home from work, you'll probably remember to switch on the air conditioner, but will you? Stable temperatures can significantly reduce your HVAC unit's monthly energy use and boost its efficiency.

There are just two levels of separation between us.

You can significantly reduce your monthly utility costs by lowering your thermostat by two degrees in the winter or by two degrees in the summer.

In the winter, many individuals choose to sleep with their heat turned down since they are comfortable enough in their beds. Instead of operating the air conditioner until the house is 'cool,' use it to remove humidity from the air throughout the summer. With these simple building care tips, you may save hundreds of dollars each year on repairs and maintenance costs.

## Weatherproofing

You don't want to spend plenty money cooling or heating your home just to find out that your inefficient windows and doors are letting that cold or warm air out. This weekend, perform a basic building maintenance task like re-sealing all of your windows and doors.

Purchase door weather stripping to keep out rain and to keep heat and cold in. Use this simple strategy to reduce your heating and cooling expenses by up to 10%.

## Consider Changing Your Windows

New windows not only look nicer, but they also save money on energy costs. Older windows tend to be drafty, which leads to a lot of condensation forming between the panes of glass.

Using a smaller, more energy-efficient HVAC unit means you may save money in more ways than one by employing a building maintenance company to install new energy-efficient windows.

## Receive A Tune-Up

We all remember to replace our cars' oil and tune them up, so don't overlook the building maintenance requirements for your HVAC equipment. Heating and cooling devices can benefit from routine maintenance, as a more efficient unit is also a less expensive unit.

In the spring, schedule a central air conditioning tune-up and schedule a heater tune-up in the fall. Also, this preventative measure will help you avoid an emergency HVAC repair call.

# CHAPTER 11

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## ***How HVAC Servicing and performing Routine Maintenance Can Help You Save Money!***

Amid daily problems, most of us are hesitant to linger on such mundane topics as the health of our home's HVAC system. However, if we want our HVAC systems to continue heating and cooling our houses and not unexpectedly burden us with a large repair cost, we must keep them in the same condition as our autos.

To avoid HVAC problems, scheduling regular HVAC maintenance with a competent HVAC servicing provider is important for keeping your HVAC elements in the maintenance phase and out of the repair phase. The next section discusses which HVAC components require routine maintenance and what that maintenance entails.

### Heating Equipment

Annual maintenance checks are required for heat pumps, boilers and oil-fired furnaces, whereas biannual checks are required for cleaner-running gas-fired equipment.

However, a professional HVAC service provider will look for leaks, unclean filters, corrosion, soot and corroded electrical contacts in each situation, cleaning and replacing equipment as required.

In hot water AND forced air boiler systems, the expert will also check the ductwork or pipes, blowers or pumps, registers or radiators, and the fuel line, gas meter and oil tank, if appropriate.

The specialist will also inspect the furnace, heat pump, or boiler for signs of wear and corrosion. Finally, the technician will use smoke pencils to make sure the airflow and CO levels are acceptable.

## Blowers

To keep forced air systems running smoothly, HVAC technicians lubricate the axel, clean the fan blades, vacuum the dust from surrounding the motor, and test it to see if it's overloaded with air. The technician will also look for fraying or slack in the blower's fan belts.

For portions that have been sealed properly, the technician will make sure unheated sections of the ductwork are sufficiently insulated after the blower inspection. To maintain hot water heaters, have the technician drain the expansion tank, clean and oil the circulating pump, and remove any trapped air.

## Ducts

80% of American homes have substantial ductwork that snakes through the ceilings, walls and floors, providing an effective delivery of rapid heating and cooling. However, regardless of how benign and trouble-free ducting appears, it may operate as a repository for dust, which when combined with a little moisture produces a breeding ground for hazardous molds and bacteria.

While air filters effectively stop dust from reentering the air, they do not always capture the microscopic mold and bacteria that thrive in dirty air return ducts. An HVAC specialist can not only improve your health, but by minimizing the amount of dust that builds within your furnace, they may also help it last longer.

Regardless of the design and components of your HVAC system, routine maintenance by an HVAC maintenance company is important to prevent costly HVAC repair expenses.



At the same time, energy-efficient HVAC components are often touted as cost-cutting measures, the simplest cost-cutting approach in servicing your existing HVAC system.

# CHAPTER 12

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## *Tips To Reduce The Cost Of HVAC Services*

Customers can remain comfortable indoors regardless of the outside temperature thanks to the HVAC services and technologies included in today's energy-efficient homes. The tight seals used around doors, windows, and floors assist maintain a comfortable interior temperature while also keeping pollutants and dust outside.

Without the proper HVAC services, bacteria, mold, and offensive odors may quickly become a severe problem for any family. HVAC service technicians are always available to assist homeowners who require specialized assistance with their home's air conditioning or heating systems.

A HVAC repairman should visit your home twice a year to inspect your heating and air conditioning equipment. They can now analyze the equipment and do a complete tune-up. This routine maintenance can help keep energy costs down and extend the life of the HVAC system.

While there are numerous scenarios in which these experienced repairmen may be required, certain ideas and suggestions can be used to improve the air quality in the home without involving the professionals. These tips are intended to assist you in maintaining a healthy, allergy-free home environment.

### Eliminate Allergens and Dusts

- Consider removing carpeting and other soft fabric surfaces from your home's rooms.
- Substitute numerous hard surface options for textile window coverings.

- A trained HVAC specialist understands that a pet-free home reduces the probability of exposure to several allergens and eliminates scents in the air.

- If you have indoor pets, keep them confined to a single room. It is critical to keep them off beds and furniture and to avoid sleeping on top of floor vents.

- Purchase hypoallergenic bedding and furniture covers wherever possible. These will keep allergies and dust mites at bay.

- When vacuuming, use a model with a HEPA filter.

- Keep windows closed as much as possible, particularly in the spring and early summer when pollen concentrations are at their peak.

#### Reduce Unpleasant Odors in the Home

- If one or more rooms do not have a return vent for the HVAC system, reducing odor concentrations is as simple as leaving the doors open.

- Consistently utilize non-toxic, environmentally friendly cleaning products.

- Incorporate exhaust fans into the kitchen and bathroom to assist in the elimination of pollutants and odors.

Indoor Humidity Reduction Tips - Inspect and repair any air leaks around doors and windows.

- An HVAC specialist should clean and inspect all ductwork and vents in the home.

- Humidifiers are small, portable gadgets that can be used to lower both indoor humidity and static electricity.

- An HVAC service technician is aware that a home's humidity level should be greater than 30% but not greater than 50%.

- HVAC service technicians should inspect any air conditioner or dehumidifier system to ensure that it is the proper size for the living space.

Additional Homeowner Checks - Keep in mind that opening doors and windows while operating the air conditioner increases the A/workload at home. C's This results in increased energy costs, decreased efficiency, and an increase in dust and contaminants in the home.

Allow specialists to undertake routine maintenance on the air conditioning and heating systems twice a year, but homeowners may ensure that no bushes or shrubs hide the central air conditioning unit.

- Additionally, the homeowner can clean floor and wall vents on a regular basis.

# CHAPTER 13

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## *Tips for Spring Furnace Maintenance*

Spring furnace maintenance is primarily concerned with ensuring that your furnace is in good working order for the next fall/winter. Also, it ensures that your system is ready to go when the time comes to switch on your air conditioning in the summer.

Between October and March or April, most families run their furnaces. This equates to around 6-7 months of furnace use on average. Those with HVAC systems that generate both heat and cold air in the winter and cool air in the summer use them practically year-round.

Home systems tend to malfunction the more you utilize them. Heat and air conditioning (HVAC) systems degrade more quickly the more you use them. As a result, your system, like a car, need routine maintenance to remain in good working order.

Make an appointment to have your system "tuned up" before the fall/winter season (when you'll need to turn on your heat) and again in the spring. You should concentrate on the following items this spring:

- 1) Use a high-pressure washer to remove debris from the outdoor condenser or heat pump. Spring is the best time to accomplish this. Make sure you won't need your heater until the fall before turning it on when the weather warms up.

Pressure washing this component eliminates winter filth and gravel fragments trapped inside components during cold, wet and slushy conditions. Also, it assists in loosening and removing any dead leaves that may have become lodged in its components. A well-maintained system operates more efficiently. Also, you're less likely to sustain harm to components as a result of all those bits.

2) Verify the filter. Your furnace filter should be updated typically every 3-4 months when your system is consistently used. Here are some broad guidelines for determining whether or not to replace the filter:

\* Is the filter noticeably blocked or dirty? If you can see dust and debris in it, it's time to replace it. If dust and particles are small and you do not intend to run your system for many months, you may choose to replace it before turning it on in the fall. Remember not to forget! If it is clogged with debris, replace it immediately.

\* Verify the filter's color. Filters are available in white, gray or cream hues. Even if there is no apparent debris trapped in the filter, it should be replaced if the filter's color has changed/darkened.

\* When replacing the filter, affix a permanent marker on the new one. This way, you'll be positive you've used it for more than three or four months.

\* Even though your filter looks to be in good condition, it should be replaced after four months of use. A clean filter helps your furnace work more effectively because not all debris is visible.

Conduct a thorough analysis of your system. This should be done at the very least once a year. Performing this task once in the fall saves time the following year.

Spring, on the other hand, is a great time to complete this activity. This way, you won't be left in the cold if something goes wrong or if a part needs to be replaced. Few things are more inconvenient than waiting until the first cold snap of autumn to turn on the furnace and discovering that it isn't working, leaving you without heat while a replacement part is ordered and installed.

Similarly, spring is an excellent time to replace an aging furnace or HVAC system with a new one. Replacing a furnace typically takes many days to weeks. By scheduling it in the

spring, you ensure that you will not be without heat or air conditioning during important times of the year.

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# CONCLUSION

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Even if you have access to the HVAC system's repair and maintenance history, it is impossible to determine whether the professional performed the work was competent. Also, you would have no way of knowing whether the technician was properly trained and had sufficient expertise at the time to repair effectively.

If you're ready to stop worrying about the state of your HVAC system, schedule an appointment with a technician who is licensed to do a maintenance check at your earliest convenience.

When looking for a new HVAC system, most people shop about for the best price and hire an expert to install it for them. A person may be overburdened with work and forget about scheduling the regular maintenance check, resulting in an unnecessary delay of many months or even years.

The best method to keep your system in good working order for many years to come is to perform routine maintenance on it. In order to avoid freezing in the winter or melting in the summer, you must make this investment.

HVAC systems have an outside condensing unit that collects dirt and debris such as falling leaves and grass clippings, but the inside unit also collects dirt and dust. The efficiency of the unit will be greatly reduced if either is not frequently maintained and cleaned.

Your HVAC system will lose 5% of its efficiency every year for the next five years if it is not properly cleaned and maintained.

Air-conditioning systems struggle to keep up with demand if they aren't running as efficiently as possible. This battle will add to your energy bills, as your HVAC system



consumes the majority of the energy you use. This statistic emphasizes the significance of regular maintenance as a preventative measure. As a result, you'll spend less money on electricity and have a more reliable system for years to come.

During a maintenance check, the HVAC technician will make sure all parts are tight and examine all electrical connections, and check the motor's voltage and look for cracks or holes. To avoid carbon monoxide leaks and fires, regular maintenance is required on the system. An annual inspection of your system will help keep your family and employees safe.

Enrolling in a yearly maintenance schedule is the simplest way to ensure that your HVAC system is safe and functional. To avoid missing an important yearly appointment, use this service. You'll also learn how important it is to keep your HVAC system in good working order so that you can prevent the high cost of repairs.

You save money in the long run and keep your family and/or employees comfortable all year round when you do routine HVAC system maintenance.

Even when the best equipment fails, you can count on the experts at McWilliams & Son Heating and Air Conditioning Installation and Repair Services to get the job done right the first time. With the Carrier network, we have access to even more equipment before our teams even leave the building.

In addition, we provide 24-hour emergency services to ensure the comfort of our friends and neighbors at all times. In the years that we've been in business, we've served Livingston, Lufkin, and Nacogdoches with pride at McWilliams & Son Heating and Air Conditioning. Your HVAC repair and replacement needs are important to us.

You can count on our team to help you find the right comfort system for your home or business. We serve both residential and commercial customers. Our factory-trained specialists provide the expertise you need, whether it's a new installation or routine maintenance Service for both residential and commercial customers.

The highly educated and licensed specialists at MC Williams and sons Heating & Air have the expertise and experience required to repair or maintain your HVAC system. Make an appointment with us right away if it has been awhile since you had your system examined and serviced.

Air conditioning and heating services can be found in Lufkin, TX as well as Nacogdoches and Livingston. Call us at (936) 465-9191 or visit our website at <https://www.mcwilliamsandson.com/>