



## IMPORTANCE OF AIR FILTRATION

Central heating and air conditioning units have become extremely popular, almost to the point that people may take it for granted. With some simple maintenance, you can enjoy your HVAC system for many years, and can avoid costly repair costs in the future. Among the most important of these preventative steps you can do is to routinely change the air filter.

The air filter in your home's A/C system is located at the intake points of the ventilation. There are many different types of air filters, the most common being disposable and pleated. These filters serve two main purposes. The first is to remove contaminants from the home's air, and the second is to keep the system working smoothly.

### Air Quality

As the air circulates throughout your home, the air filter will remove harmful contaminants, dust particles, pet dander, etc. from the air. In one study, air inside a home was shown to be up to 5 times more deleterious to one's health than the air outside, when not properly filtered. This is because modern homes are built so airtight that these harmful irritants cannot escape the building.

In the past 20 years, an expanding body of evidence shows that indoor air quality has significant impact on human health and indoor comfort. Here is a sample of the health and environmental effects of poor indoor air quality:

- \* Asthma irritation, rhinitis, sinusitis, and allergic respiratory disease
- \* Excessive dust, dirt and smoke
- \* Increased utility bills (decreased air flow)
- \* Unpleasant fumes and odor

Air filters are rated on their ability to remove these contaminants by their assigned MERV (Minimum Efficiency Reporting Value). The higher the value, the better the filter is at removing dust particles and contaminants from the air.

### System Performance

The second function your air filter serves is to keep your A/C running smoothly. A clean air filter is vital to having your air conditioner working efficiently as possible. By trapping and removing the dust particles from the airflow, it prevents these particles from accumulating in the other elements of the A/C system.

The condition of your air conditioning system determines the air quality in your home. The dirtier the coils or the air conditioning systems, the harder the system has to work because the system needs more energy/electricity to exchange the air which is inside and that which is outside. Ice may build up on the evaporator coils if there is not sufficient airflow. This will cause decreased performance, and may damage the coils. Thus a clean filtering system can help to prolong the life of your air conditioning unit.

Clogged air filters can also cause problems with the compressor, which is very expensive to repair. Clogged airflow causes the compressor to have to work harder, causing it to fail sooner. Also, decreased airflow due to unclean filters can cause energy costs to rise as much as 20%.

### Replacement

It is recommended to inspect your home's air filter every month. If the filter is dirty, then it should be discarded and replaced immediately. If your home is particularly dusty or you keep pets in your home, it is also advisable to replace the filters more frequently. In any case, filters should not be left more than three months without replacement.

**BUY REPLACEMENT FILTERS FROM CAPITAL AIR FILTERS, INC.**

**(919) 785-9881**

**6101-101 WESTGATE ROAD RALEIGH, NC 27617**

**SALES@CAPITALAIRFILTERS.COM**