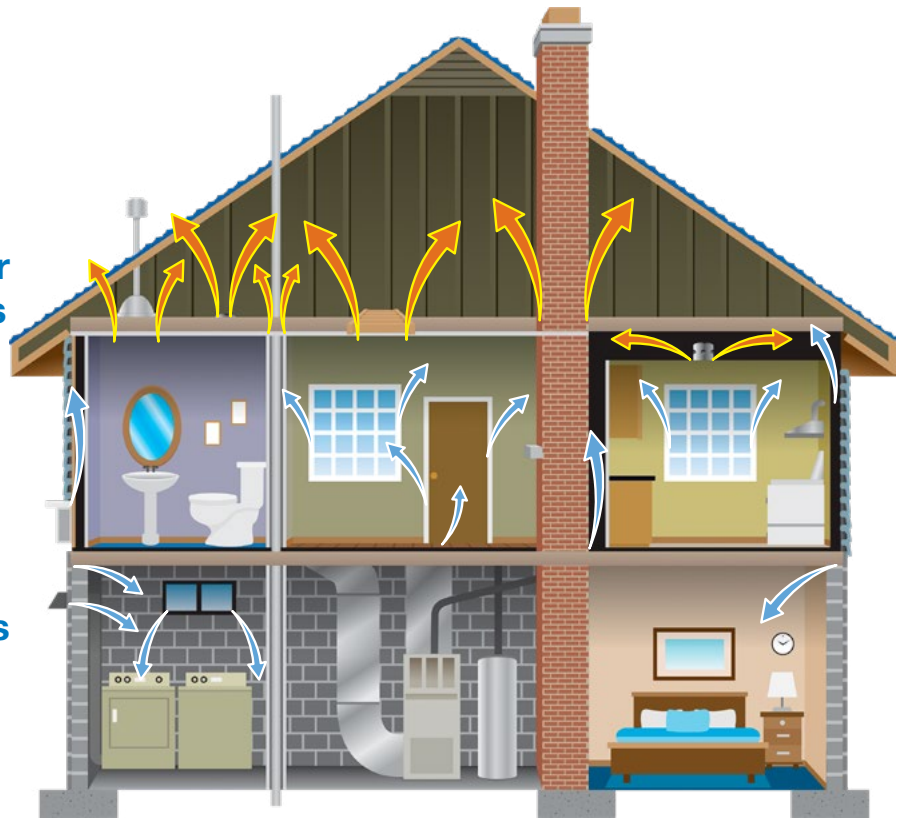


## 4-Step IAQ ASSURANCE PROGRAM

- 1. CLEANING** restores design efficiency, reducing energy costs and threats to air quality
- 2. PROTECTING** enables the coil to stay cleaner for longer periods of time, and it makes the next cleaning easier
- 3. CONTROLLING IAQ** concerns such as bacteria, viruses, and odors assures optimum air quality
- 4. PREVENTING** future growths of bacteria or bio-fouling assures system integrity and superior air quality



***The 4-Step IAQ Assurance Program for Air Conditioning and Heating Systems is based on Nu-Calgon's 70 years of experience in the industry!***

A home or building's air conditioning system greatly affects Indoor Air Quality (IAQ), and the system's evaporator or indoor coil has the most impact. As air moves across the evaporator coil, the air usually contains dust, dirt, pollen, moisture, or pathogen spores causing the coil and the condensate pan to get dirty and fouled. This will reduce the quality of the air within the home or building, and the result of this is more costly and damaging than you would suspect. Implementation of the **4-Step IAQ Assurance Program** will keep the equipment operating efficiently, increasing the comfort and significantly improving the indoor air quality of the building or home.

# 1. CLEANING

Cleaning the evaporator coil is the first step of the IAQ Assurance Program. Use one of the following Nu-Calgon products to clean the evaporator and restore the equipment's designed capacity and power efficiency.



## Evap-Fresh™ No Rinse Evaporator Coil Cleaner and Disinfectant

A ready-to-use, non-abrasive, one step HVAC cleaner and disinfectant for evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils and refrigeration equipment. Evap-Fresh No Rinse kills SARS-CoV-2 COVID-19 virus on hard nonporous surfaces in just 60 seconds! It also kills Pandemic H1N1 Influenza A Virus.



## Evap-Fresh™ No Rinse Evaporator Coil Cleaner and Disinfectant

A ready-to-use cleaner and disinfectant for evaporator coils. It effectively cleans as well as controls mold and bacteria. This disinfectant cleaner is perfect for air conditioners, commercial air handling units, HVAC cooling coils, refrigeration equipment and evaporator coils. EPA registered.



## Evap Foam® No Rinse

A high performing, heavy duty detergent. It is formulated with special surfactants and alkaline cleaners that have been developed into a foaming, no-rinse product. Evap Foam is ideal for use on most coils, but it is particularly suited for use on cooling or evaporator coils. Can be sprayed either right side up or upside down.

NSF



## Tri-Pow'r® HD

An outstanding general purpose coil cleaner, providing detergency and degreasing as well as deodorizing capability. Its positive emulsion technology is very effective versus oily grime as it converts the deposits into a more fluid or liquid form that can be easily rinsed away. It is non-acid, non-toxic and biodegradable.

NSF



## Evap-Green™

Evap-Green's outstanding cleaning ability will quickly remove dust, dirt, and debris that is typically found on evaporator coils. By using Evap-Green, a natural cleaner, the coil is being cleaned with the most environmentally friendly product available on the market. Evap-Green meets EPA Safer Choice Direct Release criteria.

NSF



## Evap Pow'r®-C

A "no rinse" product formulated for cleaning evaporator coils. It is metal-safe and it cleans and emulsifies even the most stubborn soils and deposits. Evap Pow'r-C is available in a concentrated form. Evap Pow'r-C is USDA Approved and biodegradable.

NSF



## ViroGuard™ No Rinse Evaporator Coil Cleaner and Disinfectant

ViroGuard is an EPA registered no rinse evaporator coil cleaner and disinfectant. When used as directed, ViroGuard No Rinse Evaporator Coil Cleaner and Disinfectant is formulated to disinfect inanimate hard surfaces such as air conditioning evaporator coils and HVAC drain pans. In addition, this product deodorizes those areas which generally are hard to keep fresh smelling and other areas which are prone to odors caused by microorganisms. This product is also suitable for use for: PTACS, window units, mini-splits, refrigeration equipment, freezer evaporative coils, and ductless systems.

## 2. PROTECTING

Once the coil is cleaned, the equipment will be running at designed performance levels. However, the causes of the dirty coil needs to be addressed both on the coil and in the breathing zone. The evaporator coil should be protected or shielded from these contaminants. Nu-Calgon offers both a temporary and long term option in the form of a chemical or electronic option.

### Cal-Shield™

A coil protectant that will repel moisture, helping to prevent dirt, dust, and grime from adhering to the coil, enabling the coil to stay cleaner longer. Cal-Shield also protects coils from aggressive environments like salt air, food acids, and other airborne corrosives. This all-important protection can be field-applied with safety and ease, and certification of its application can be provided. Cal-Shield is safe to use, and because it is a molecular film, it has no effect whatsoever on heat transfer. It is made of food-grade materials, making it safe for most applications, including walk-in coolers. In addition, its use will make the next cleaning job much easier.



### iWave®

iWave is an air ionization system that utilizes needlepoint bi-polar ionization to create equal amounts of positive and negative ions. iWave installs in and functions with any air conditioning or heating system. When air passes over the iWave, ions produced by the device reduce certain bacteria and viruses, particles, smoke and odors in the air. When the ions are injected into the airstream, they also reduce certain vocs, pollutants, and airborne gases. These VOC's are not only a cause of poor IAQ, but have been known to do long term damage to an evaporator coil. As the iWave emits both positive and negative ions into the airstream, they will reduce certain viruses and bacteria. Contact with ions has microbicidal effects on certain viruses and bacteria, which ultimately disrupt their surface proteins and render them inactive. The ions emitted from the iWave ionization system also attach to particles like dust and dander, causing them to band together until they are large enough to be caught by your ventilation system's air filter. This ensures that the particulate is caught by your filter, and no longer collecting on your evaporator coil, causing efficiency loss or IAQ issues. iWave's technology generates the same ions that nature creates with lightening, waterfalls, and ocean waves, etc. Nature uses energy to break apart molecules, naturally cleaning the air and producing a healthy environment. The only difference between the iWave's technology and nature is that the iWave is validated to meet UL 867 ozone requirements.



## 3. CONTROLLING

Evaporator coils, fans, drain pans and other system components can become sites for bio-film and bacterial colonization if not properly treated. This can lead to problems associated with SBS (sick building syndrome) or "dirty sock" odor. The best way to prevent this from occurring is to treat these areas with products proven to kill and prevent future growth of bio-film or bacteria.



### ViroBlaster

The ViroBlaster is a portable electrostatic mist sprayer designed to quickly, easily, and effectively dispense a variety of Nu-Calgon cleaners, sanitizers, and disinfectants. The electrostatic method of the ViroBlaster helps the product cling to surfaces much more efficiently than a standard sprayer. The ViroBlaster uses a rechargeable lithium ion battery to provide 30 minutes of use efficiently dispensing product.

### 3. CONTROLLING (cont.)



#### Bio-Fresh® cd

A ready-to-use bacteriostat, fungistat and deodorizer based upon chlorine dioxide technology. It's recommended for control of bacteria, mold, mildew, fungi and yeasts in IAQ applications. It's safe for spraying in occupied space. Its EPA registration includes application to HVACR ventilating equipment, including coils, condensate pans, filters and duct-work. It has also been tested and found to be effective against Legionella bacteria.



#### The Bio-Fresh® Fogger

Made of a one-piece, seamless heavy-duty copolymer with a 48" flexible hose that is adjustable from 0-18 ounces per minute with the respective particle size at 20 to 80 microns. Ideal for using Bio-Fresh cd when spraying large areas or ductwork.



#### iWave®

The positive and negative ions produced by the iWave will address these harmful IAQ issues such as certain viruses and bacteria and VOCs in the system and on the components. As the iWave emits both positive and negative ions into the airstream, they will reduce certain viruses and bacteria. Contact with ions has microbicidal effects on certain viruses and bacteria, which ultimately disrupt their surface proteins and render them inactive. Visit [iWaveair.com](http://iWaveair.com) to view performance data and to learn even more about the features of benefits of iWave.

### 4. PREVENTING

One location in the system that is the most prone to the build-up of bacterial slime is the condensate pan. As condensate is collected in the pan, it can become a breeding ground for harmful bacteria. This build-up can cause foul odors as well as a plugged drain causing costly overflows. Nu-Calgon has several products to address the condensate pan and drain line to ensure it is free flowing and no longer a source for foul musty odors or indoor air quality concerns.



#### GelTabs™

They are formulated with a breakthrough gel locking technology for treating air conditioning drain pans and lines, and will keep the drain pan from clogging and eliminate foul, musty odors. When activated by condensation, the tablet will turn to gel and lock into place. This ensures that the tab will not move and potentially block the drain. They are designed to completely dissolve at an even rate, leaving nothing to remove when the product is done working.



#### PanPads®

It is a quarternary-based biocide that is formulated and enclosed in a plastic housing. This allows immediate and controlled release of the powerful biocide that will prevent growth of harmful bacteria.

#### Pan-Treat™

Formulated to control odor, build-up of sludge, and other accumulations in the drain pan. Pan-Treat is formulated with ingredients proven effective in cleaning and preventing these deposits. Pan-Treat is extremely easy to use, and is safe, non-corrosive, non-toxic and biodegradable. It is completely soluble in water without forming any deposits in the pan or drain and can be used in humidifiers too.



#### PurCool Strips

Powerful condensate strips for A/C condensate drain pans. Just place them anywhere in the drain pan where the PurCool Strips will contact the condensate water and enjoy up to six months of protection. PurCool Strips will adhere to the drain pan and will not float or move. They dissolve completely, leaving no residue. PurCool Green is also available that utilize a unique, environmentally friendly plant-based formula.