



HVAC ENERGY REDUCTION SYSTEM

- Reduces your energy bill by 10–20%*
- Destroys all foul musty odors
- Prevents salt and acid rain damage extending the life of your units

SIMIX improves the ability of any new or old unit to produce dramatically colder and fresher air

Waffle House #265, Phoenix Arizona



15 year old 5-ton roof unit before cleaning and coating

These older units produced dramatically colder air after all condenser and evaporator coils were cleaned and coated. Run times were reduced by over 50%, slashing energy use while also improving air quality.

Air temperatures measured during the cleaning and coating process



Return air

Supply air before cleaning

Supply air after cleaning

Supply air after coating

Split results ▶

13.3°

▶ 20.4°

▶ 45.3°

*Savings will vary based on geographical location and temperatures. The hotter the temperature the more the savings.

A New Standard in Efficiency, Protection, and Air Quality
Coats the entire unit including cabinet interior and exterior, fan blades, condensing, evaporator and heat exchange coils

**The Key
to Better
Indoor **AIR**
QUALITY**



SIMIX turns your evaporator coil into an **AIR PURIFIER**



Reduce sick days

Cleaning and coating your evaporator coils destroys airborne germs, viruses, odors and generates clean fresh air.



We used AirAnswers™ to test SIMIX at a busy Chicago area diner.

**The Result:
Air cleaner and fresher
than outdoors!**

**Air quality
results were
achieved
without UV-C
light source**

Before cleaning and coating			After cleaning and coating with SIMIX			
Airborne contaminant		Result on 6/7/21		Result 1 week later		Result 3 weeks later
COVID		Not detected		Not detected		Not detected
Grass pollen	High	0.13		Not detected		Not detected
Cat allergen*	Medium	0.37	Low	0.11	Low	0.11
Dog allergen	Low	0.28	Low	0.20		Not detected
Mold allergen	Medium	5.89	Medium	4.71		Not detected

AirAnswers is the only commercially available air sampling device that collects all biological particles including viruses, bacteria, allergens and molds. Samples are analyzed in their ISO certified laboratory by RT-PCR using protocols designed and provided by the Center for Disease Control and Prevention.

*It's not uncommon to see changes in allergens, especially with pet allergens, from run to run. Cat allergen is very tenacious and can stick to cat owner hair, skin, and clothing. Cat owners can easily transfer cat allergen everywhere they go. The higher cat allergen may be due to a cat owner coming into the establishment.

SIMIX turns your condenser coil into an **AIR PURIFIER**

What is SIMIX?

SIMIX Ceramic Clearcoat is a permanent, hygroscopic, non film-forming, super-hard liquid glass that will never yellow, chip, peel or crack. Just like in glass, the primary ingredient in SIMIX is silica (sand). That is mixed with potassium and lithium, which are very conductive. SIMIX conducts heat. It is not an insulator, like all other coil coating products on the market today.

What is hygroscopic?

A continual process to attract and adsorb water molecules from the air to the surface. This process of evaporative cooling draws heat from the coils and also enhances the sustainable photocatalytic oxidation technology (SPOT-ON™) which breaks down greenhouse gases, airborne allergens, germs, viruses, mold, foul odors and generates clean fresh air.

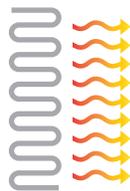
Why do you need SIMIX?

Air conditioners start losing efficiency the moment you install them. Tiny gaps are created by the expansion and contraction of the tubes and fins. Airborne corrosive particles and salt ions enter those microscopic gaps, corroding the unit and making it less efficient. SIMIX fills in those microscopic gaps, leaving behind a smoother surface that improves heat transfer.

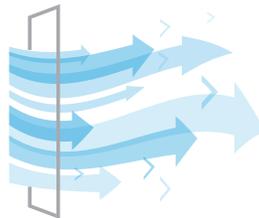
What does SIMIX do?



SIMIX fills in microscopic gaps between fins and tubes created by salt, air pollution, and expansion and contraction.



SIMIX is a conductor. It pulls heat away from the coils.



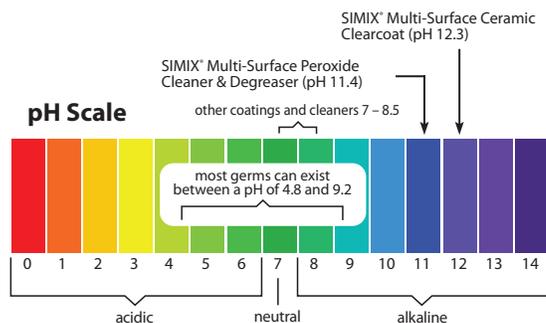
SIMIX SPOT-ON technology breaks surface tension allowing the fans to pull more air through the condenser and evaporator coils, destroying odors and generating clean, fresh air, indoors and outdoors.

RESULTS

- Breaks down airborne allergens, germs, viruses, mold, foul odors and generates clean fresh air
- Eliminates Dirty Sock Syndrome
- Prevents Legionella
- Prevents salt damage
- Cuts down on sick days
- Reduces PM time
- Significantly improves air flow
- Prevents airborne kitchen grease build-up
- Can be easily applied in the field
- Units stay cleaner longer
- Adds years to the life of unit
- Payback 3–9 months
- Condenser coils breaks down greenhouse gases
- Reduces your Net Carbon Footprint

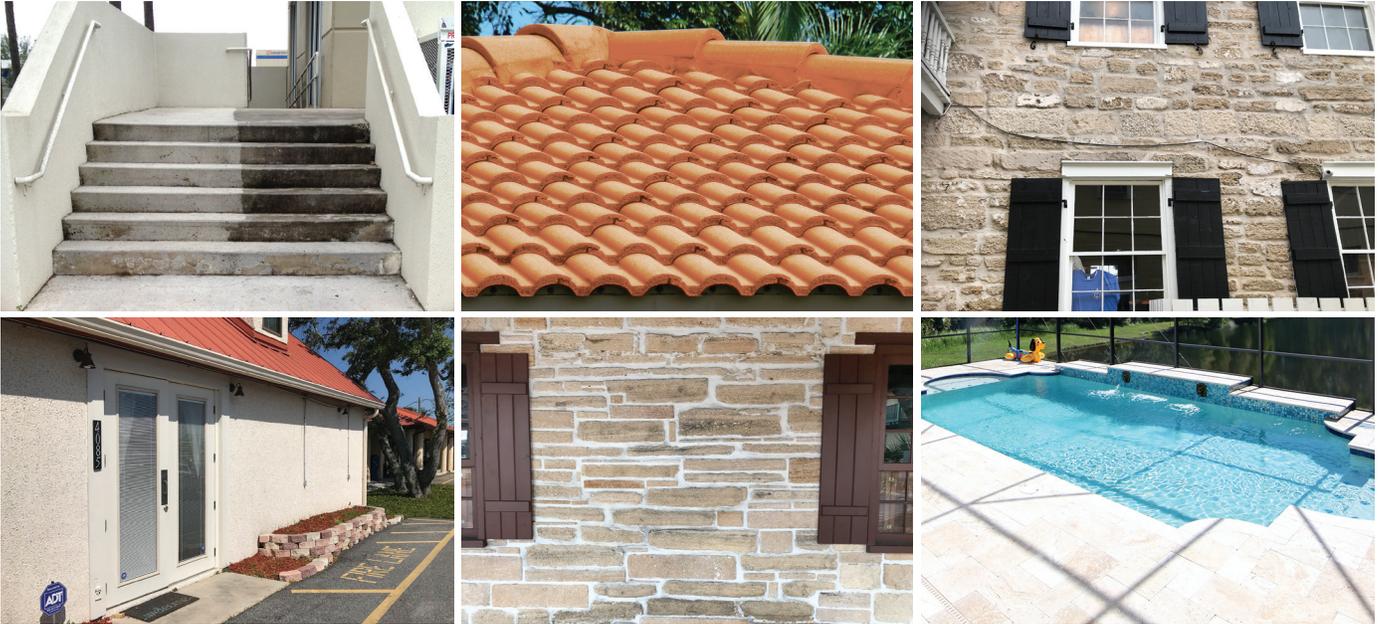
SIMIX SPOT-ON™

Sustainable Photocatalytic Oxidation Technology (SPOT) is what we call the titanium dioxide inside SIMIX Coating and Cleaner. Titanium dioxide is a safe, naturally occurring compound that reflects natural and artificial light. As that light is reflected, it converts water vapor in the air into a radical form of hydrogen peroxide, often referred to as the “detergent” of the atmosphere which breaks down greenhouse gases, airborne allergens, germs, viruses, mold, foul odors and generates clean fresh air.



Mold, bacteria and pollen – and the odors they create – live and grow on surfaces that have a pH level between 4.8 and 9.2. While most cleaning and coating products are pH neutral, SIMIX Multi-Surface Cleaner/Degreaser/Sanitizer (pH 11.4) and SIMIX Multi-Surface Ceramic Clearcoat (pH 12.3) create a permanent, safe, high pH that prevents the growth of mold, bacteria and viruses.

SIMIX makes all exterior surfaces look better, last longer, stay cooler and generate pure fresh air



Before coating air temp 83°F. surface temp 120.2°F
 After coating air temp 85°F. surface temp 83.7°F
 Lowered by 36.5°F

- Enhances true color • Prevents further oxidation
- Prevents all automotive fluids from attaching
- High traction coating - Reduce slip and fall
- Reduces salt and freeze-thaw damage
- Prevents algae, mold, and mildew regrowth
- Water-based • Zero VOCs • No odor
- Never use bleach again



When both roof and A/C coils are coated you can expect to reduce energy consumption on the hottest days from a low of 25% to upwards of 40%



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MADE IN USA

SMX172-5

