



HVAC ENERGY OPTIMIZATION SYSTEM

Busy Chicago family restaurant reduced kWh usage, saving \$1,371 while touting “fresher air than outdoors”



Watch a 3 minute video to change your perspective on cleaning.
www.simixusa.com

Original Pancake House, Park Ridge, IL - Restaurateur, **Dale Eisenberg** has been using SIMIX for over six years in his five locations, and is saving 60% to 70% on cleaning costs. At his Original Pancake House he used to spend \$2,400 per year to hydrojet four times a year and has eliminated those costs completely.

Dale cleaned then added one coat of SIMIX Multi-Surface Ceramic Clearcoat to the condensing and evaporator coils on his 5 and 12-ton unit. Destroying airborne allergens, germs, viruses and foul musty odors which also reduced energy consumption saving money!

	KWH 2019	Avg Temp	Kwh 2022	avg temp	Kwh 2023	avg temp	2022 diff	2023 diff
April	11820	55	10860	53	10740	58	960	1120
May	11220	64	10500	70	10560	70	720	660
June	14100	74	15480	81	14640	78	-1380	-540
July	19320	83	17340	82	15780	81	1980	3540
Aug	18540	80	17100	81	17040	81	1440	1510
Sept	17940	75	17040	76	16200	74	900	1740
Oct	15720	53	13560	53	13200	56	2160	2520
Units were cleaned and coated in September 2021.							6840 less Kwh	10550 less Kwh
2019 normal business (base year)							\$889 saved	\$1,371 saved
2020-2021 COVID-19 reduced seating capacity								
2022-2023 back-to-normal								

IMPACT

- **10,550 less kWh's**
- **12,027 lbs. of coal was not burned**
- **31,029 lbs. of carbon dioxide was not released into the atmosphere reducing their Net Carbon Footprint**
- **If an average tree absorbs 48 lbs. of CO₂ annually, 646 trees would have had to be planted**

(1 kW = 1.14 lbs. of coal)

(1 lb. coal x 2.58 = CO₂ produced)

*per US Dept. of Energy

We used AirAnswers™ to test SIMIX at the Original Pancake House.

The Result: Air cleaner and fresher than outdoors!

Before cleaning and coating

Airborne contaminant		Result on 6/7/21
COVID		Not detected
Grass pollen	High	0.13
Cat allergen*	Medium	0.37
Dog allergen	Low	0.28
Mold allergen	Medium	5.89

After cleaning and coating with SIMIX

	Result 1 week later
	Not detected
	Not detected
Low	0.11
Low	0.20
Medium	4.71

	Result 3 weeks later
	Not detected
	Not detected
Low	0.11
	Not detected
	Not detected

Air quality results were achieved without UV-C light source

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.

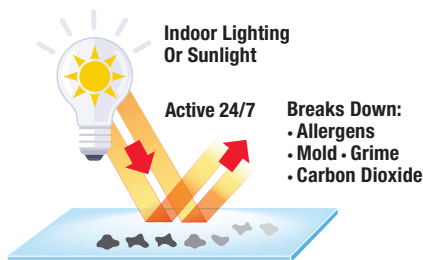
Lowers your energy bill • Destroys all foul musty odors
Prevents salt and acid rain damage extending the life of your units

The Key to Better Indoor **AIR** QUALITY



RESULTS

- Breaks down greenhouse gases, 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



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.

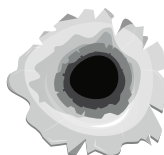
What is hygroscopic?

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?

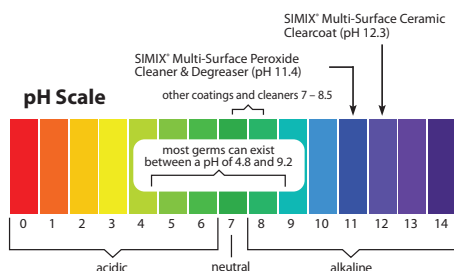
Air conditioners start losing efficiency the moment you install them. Tiny gaps are created by the expansion and contraction of the tubes and fins. Airborne corrosive particles and salt ions enter those microscopic gaps, corroding the unit and making it less efficient. SIMIX fills in those microscopic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

What does SIMIX do?



What is SPOT-ON?

Sustainable Photocatalytic Oxidation Technology (SPOT) is what we call the titanium dioxide inside SIMIX Clearcoat and SIMIX Cleaner. Titanium dioxide is a safe, naturally occurring compound that reflects natural and artificial light. As that light is reflected, it converts water 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 12.5) and SIMIX Multi-Surface Ceramic Clearcoat (pH 12.3) create a permanent, safe, high pH that prevents the growth of mold, bacteria and viruses.



REAL SUSTAINABILITY • REAL SAVINGS™

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