



HVAC ENERGY REDUCTION SYSTEM

Wisconsin homeowner reduced his kWh usage by 34.74% and saved \$2,031 over 3 years

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



Patrick Balistreri installed a new AC unit in the spring of 2021. In the Spring of 2023 he cleaned and applied one coat to the condenser and evaporator coils on his 3-ton home air conditioner with SIMIX. Since then he has reduced his energy consumption, saves money on his energy bill and improved the indoor air quality.

After cleaning and coating the evaporator and condenser coils, run time was reduced by over 50%, which lowered energy consumption and reduced wear and tear, extending the life of the unit.

In July 2025 Patrick added 2 additional coats to further improve kWh energy reduction.

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2022 / kWh rate 13.5			2023 / kWh rate 17.78			2024 / kWh rate 21.79			2025 / kWh rate 24.77		
AIR CONDITIONING	Before SIMIX (Uncoated)		After SIMIX (Coated)		After SIMIX (Coated)		After SIMIX (Coated)		After SIMIX (Coated)		
		kWh's	Avg Temp	kWh's	Avg Temp	kWh's	Avg Temp	kWh's	Avg Temp	kWh's	Avg Temp
	May	2021	65°	1427	65°	1019	55°	1012	53°	1012	53°
	June	1567	74°	1168	73°	935	64°	1053	62°	1053	62°
	July	1871	77°	1224	77°	1291	72°	1272	75°	1272	75°
	Aug	1556	75°	1299	75°	1208	72°	1259	73°	1259	73°
	Sept	1456	68°	1256	70°	1028	68°	888	66°	888	66°
	Oct	1231	56°	792	56°	872	66°	848	68°	848	68°
9,702 kWh's		7,166 kWh's		6,353 kWh's		6,332 kWh's		6,332 kWh's		6,332 kWh's	
Cost \$1,309.77		Cost \$1,274.11		Cost \$1,384.31		Cost \$1,568.43		Cost \$1,568.43		Cost \$1,568.43	
		2,536 less kWh's		3,349 less kWh's		3,370 less kWh's		3,370 less kWh's		3,370 less kWh's	
		Reduced kWh usage by 26.1% and saved \$450		Reduced kWh usage by 34.52% and saved \$729		Reduced kWh usage by 34.52% and saved \$729		Reduced kWh usage by 34.74% and saved \$834		Reduced kWh usage by 34.74% and saved \$834	

For best results rinse and change filters quarterly. • Payback in one year or less. Certified HVAC technician depending on your area estimated charge \$75–125/per ton.

IMPACT: • 9,255 less kWh's

- 10,550 lbs. of coal was not burned
- 27,219 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, 567 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

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

How to Clean and Coat Air Conditioning Systems with SIMIX



You will need:

- (2) 2-4 gallon pump-up sprayers
- Small leaf blower
- Self mixing lawn and garden hose sprayer
- Water supply hose
- Fin comb (optional)
- SIMIX Multi-Surface Peroxide Cleaner**
- SIMIX Multi-Surface Ceramic Clearcoat**
- Distilled or RO water

Straighten fins. Optional step if minor damage.

Step 1: Turn off unit and pull breaker.

Step 2: Dissolve **SIMIX Multi-Surface Peroxide Cleaner/Degreaser** in a pump-up sprayer or self mixing garden hose sprayer.

You will use 1 big scoop of **SIMIX** powder for every 1 gallon of hot water if available. Shake to mix solution.

To Clean Unit

Step 3: Soak the condensing and evaporator coils, fan and cabinet with **SIMIX** cleaning solution inside/out and outside/in until you see the cleaner water mixture running off.

Step 4: Allow cleaner to soak for 3 to 5 minutes.

Step 5: Thoroughly rinse from top to bottom, inside/out and outside/in.

Step 6: Repeat steps 1 through 3 if needed.

Step 7: Dry condensing and evaporator coils with a small leaf blower or turn unit on and run fan.

UNIT MUST BE TURNED OFF AND BREAKER PULLED BEFORE CLEANING AND COATING

Prepare SIMIX Multi-Surface Ceramic Clearcoat. Refer to Mixing Instructions below.

4 parts water with 1 part coating in pump up sprayer. (only use distilled or RO water)

Apply SIMIX Multi-Surface Ceramic Clearcoat

Step 1: Turn off unit and pull breaker.

Step 2: Evaporator coil: Spray coil, coat from both sides if possible. Spray until the fins are completely soaked and coating is visibly running down the coils.

Step 3: Allow to dwell 3 to 5 minutes then use leaf blower to further drying process.

Step 4: Repeat coating application to add second and third coat, repeating step 3 after each coat.

Step 5: Condensing coil: Repeat coating application process for a total of 3 coats.

Step 5: Spray coating on everything else inside the unit including both sides of the fan.

Step 6: Close the unit.

Step 7: Spray coating on entire cabinet exterior and buff dry with Microfiber cloth. Once done, replace the breaker and turn the unit back on to cool.

Step 8: Run for at least 20 minutes so the coating cures.



MIXING INSTRUCTIONS

For best results and longevity of coating, mix SIMIX with distilled or RO water. Mix in a pump-up or backpack sprayer. Always add water first and SIMIX second.

BEFORE MIXING, SHAKE GALLON OF SIMIX THOROUGHLY.

CONSULT MIXING CHART BELOW. Pour proper amount of distilled or RO water first into sprayer. Then add proper amount of SIMIX concentrate and mix thoroughly.

CHECK SURFACE TEMPERATURE. Apply when surface is above 45°F and below 120°F. If the surface is over 120°F, pre-wet surface. Coverage rates will vary based on type of surface, porosity, ambient temperature, surface temperature and humidity.

A/C: Refrigeration • Heat Pumps

• Evaporator & Condenser Coils • Cabinets

Coverage/per mixed gallon

Distilled or RO water	SIMIX	Total	Evaporator/Cond. Coils
4 Gallons	1 Gallon	5 Gallons	30 – 40 tons
2 Gallons	1/2 Gallon	2 1/2 Gallons	
1 Gallon	1 Quart	1 1/4 Gallon	Inland units 1 coat, coastal units recommended 2 coats
26 Ounces	6 Ounces	1 Quart	



The Greatest Technological Advancement since the Invention of Air Conditioning, Refrigeration, and Heat Pumps.

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