

Reduce energy usage by 25-50%

Drive significant energy savings by reducing HVAC energy consumption.

INTRODUCING



raise
ENERGY

HVAC Portfolio



raise
RESTORE
1030



raise
REACT
CHIP

With each purchase from
RAISE Energy you participate in
a donation of energy products
and energy savings to those
who need it most.



The ONLY
Permanent Solution

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RESTORE
1030

A/C Refrigeration Treatment Optimizer

10-30 % ENERGY SAVINGS*

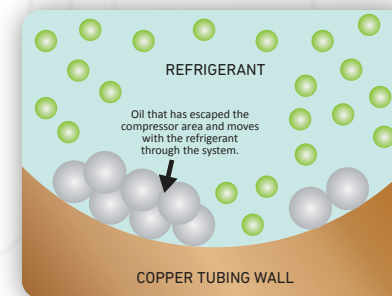


RESTORE1030™ has been proven to increase A/C and refrigeration system efficiency by 15% on average by optimizing the system in 3 distinct ways.

- The first optimization is through the removal of oil-fouling. This removal restores the 20-30% loss in heat transfer capability, allowing for enhanced refrigerant contact with coils. Additionally, the unit is protected from future oil-fouling for the life of the system.
- The second optimization causes the refrigerant to evaporate or “boil” at a higher temperature. The cumulative effect of these 2 components working together results in a 73% improvement in heat transfer capability.
- The third optimizing benefit is the increase in lubricity and boost in the compressor oil’s performance. The tenacious bond actually keeps the friction reducing properties even when the oil is not present. In addition, there is less wear and tear on the equipment; extending the life of the equipment and lowering maintenance costs.



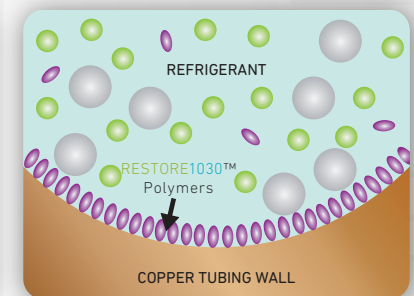
ELIMINATE OIL FOULING



BEFORE

Oil-Fouling increases friction and reduces the ability to transfer heat.

More total energy is then needed to circulate the refrigerant throughout the system.



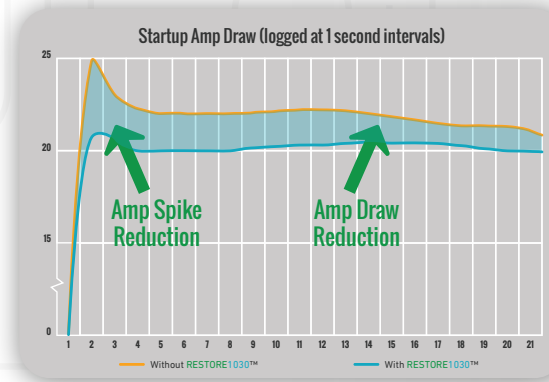
AFTER

RESTORE1030™ removes Oil-Fouling on refrigeration tubing inner surfaces.

RESTORE1030™ permanently bonds to the metal surfaces eliminating future Oil-Fouling and improving heat exchange.



REDUCE AMP SPIKE AND AMP DRAW



- Reduces the amp spike and the operating amperage draw of the compressor by reducing friction.
- Allows the compressor to operate at a lower temperature and pressure.
- Reduces compressor noise level by 3-5 decibels.

INCREASED HEAT TRANSFER

COPPER



BEFORE

AFTER

ALUMINUM



By eliminating oil-fouling, **RESTORE1030™** increases refrigerant flow by 5-8% and increases heat transfer and efficiency for the life of the system.

System Improvements:

- Oil Fouling Permanently Removed
- Thermal Transfer Increased
- Pool Boiling Improved
- Lubricity Increased
- Start-Up Amp Draw Reduced
- Compressor Run Time Reduced

Benefits:

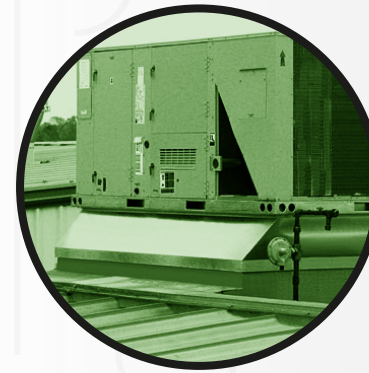
- Energy Costs Reduced
- Decibel Level Reduced
- Maintenance Costs Reduced
- Unit Life Extended
- Short ROI
- Contains No Corrosive Ingredients
- Emissions & Environmental Impact Reduced
- \$10 Million General Liability Coverage



raise REACT CHIP

Energy Control Chip

Optimizes your HVAC cycle time and reduces energy consumption.



10-30 % ENERGY SAVINGS*

System cycle time monitoring and fan run time optimization

The first microprocessor monitors system cycle time and adjusts the HVAC fan to stay on for an extended amount of time after the cooling or heating unit cycles off. Most systems are designed for the fan to turn off after 60 or 90 seconds. REACT™ records how long the cooling or heating unit has been running and automatically programs the fan to remain on for the precise amount of extended time - up to 3.5 minutes in cooling mode and up to 4.5 minutes in heating mode.

This utilizes the additional cold or hot air remaining in the system that would have been wasted, reducing the number of times the HVAC system cycles on and off.

Automatic compressor cycle-off

The second microprocessor is built with compressor saving technology. For all systems cycling 25 minutes or greater, the compressor will get a 4.5 minute reprieve – allowing for maximum benefits with less wear and tear on the compressor and additional energy savings.

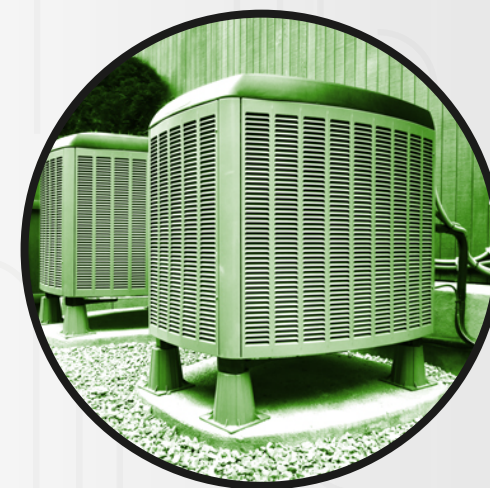


System Improvements

- Fan Run Time Optimized
- Residual Coil Temperature Captured
- Compressor Run Time Reduced 50-70 Days per year
- # of Compressor Cycles Reduced 7300 per year

Benefits

- Energy Consumption Reduced 15-30%
- Maintenance Costs Reduced
- Unit Life Extended
- Fewer Hot and Cold Spots
- One-Time Cost
- Short ROI
- Simple install – 30 minutes
- Transferable to Different Systems
- Manufacturer's Warranty Maintained
- Hassle-free with no recurring cost
- Emissions & Environmental Impact Reduced
- 5-Year unconditional replacement warranty





RAISE Energy Solutions is an incubator, manufacturer, and integrator of intelligent LED lighting, innovative energy efficiency products, renewable power generation, and energy storage and distribution technologies. Our holistic approach to energy efficiency begins with energy conservation and includes generation, storage, and distribution. Visit www.RaiseEnergySolutions.com to learn more.

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