

After 30 years of expertise in the science of heat transfer, Liquid SEER began looking at the HVAC sector with the ambition of revolutionizing an industry that hasn't experienced true innovation in over 100 years. With the goal of introducing green tech that would impact practical change at a scale necessary to address the urgent demands of today, Liquid SEER began to focus on after-market performance optimization to implement rapid relief.

Unpredictable weather patterns and increasing occurrences of extreme weather events present a fresh set of challenges related to energy demands for power companies and consumers alike, which led Liquid SEER to expand its focus to create versatile, practical, easily accessible solutions across sectors, since nothing but aggressive performance enhancements will suit the need. Wherever heat transfer occurs, Liquid SEER can optimize performance.



Researchers at Lawrence Berkeley National Laboratory, the International Energy Agency (IEA), and Rocky Mountain Institute (RMI) have concluded that room air conditioners alone - the typical window and split units used in most homes - are set to account for over 130 gigatons (GT) of CO₂ emissions between now and 2050. That would account for 20-40% of the world's remaining "carbon budget."

Air conditioners use about 6% of all the electricity produced in the United States, at an annual cost of about \$29 billion to homeowners. As a result, roughly 117 million metric tons of carbon dioxide are released into the air each year.



Meet Liquid SEER

A thermal capacity enhancing anti-corrosion coating that reduces energy consumption, increases performance, and prolongs the life of equipment. It's a black coating that delivers big green benefits.

liquidSEER.com

Liquid SEER's versatile technology provides an astounding increase in efficiency and capacity across a wide variety of applicaitons.



Increased Energy Efficiency

Liquid SEER's adaptive technology excels under environmental stress. During peak demand when equipment is most needed and in danger of failing, Liquid SEER excels by boosting heat transmission efficiency in devices such as heat sinks, radiators, coils, air conditioners, engines and other devices enabling them to perform under extreme conditions – conditions that would normally cause equipment failure.

Prolonged Equipment Life

Save maintenance costs using Liquid SEER to decrease wear and tear. Liquid SEER can also give new life to old equipment, helping it to perform more efficiently than when it was new. Apply Liquid SEER to undersized equipment to meet demands.

Protective Barrier

Strong like no other, Liquid SEER shields against corrosion by exceeding 10,000 plus ASTM salt fog test hours (and still going!) provides UV durability, and protects from galvanic corrosion.

Cost Effective

Our simple one-part system enables a speedy, money-saving field application.

Residential Air Conditioning Systems

Bryant BH14NB018 14 SEER split system heat pump

In cooling: manufacturer's spec: 85° outdoor temp/62° wet bulb 17,630 BTUs sensible at 1.26 kw rated 14 SEER. After application: 81° outdoor/62° wet bulb unit produces 25,211 BTUs, (sensible BTUs:14,652; latent 10,558) at 1.05 kw. **Improved liquid SEER performance: 24.**

Carrier 50TVA4831TP 8.4 SEER package heat pump

In cooling: manufacturer's specs: 110° outdoor temp/57° wet bulb 37,950 BTUs sensible at 4.5 kw. rated 8.4 SEER. After application 110° outdoor/56.3° wet bulb unit produces 48,240 BTUs, (sensible BTUs:48,038; latent 201) at 4.1 kw. **Improved liquid SEER performance: 12.**

Daikin DZ16TC048TCA 17 SEER split system heat pump

In cooling: Manufacturer's specs: 85° outdoor temp/63° wet bulb 47,300 BTUs sensible at 3.25 kw. rated 17 SEER. After application 83° outdoor/63.9° wet bulb unit produces 59,598 BTUs, (sensible BTUs:39,251; latent 20,346) at 1.92 kw. **Improved liquid SEER performance: 31.**

Residential Air Conditioners

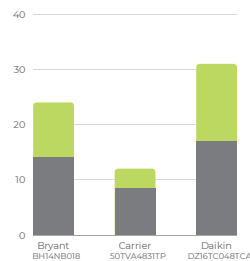
Seer Increase



Liquid SEER
24% increase with coating applied

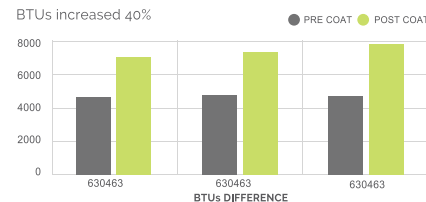


Without LS
Factory SEER

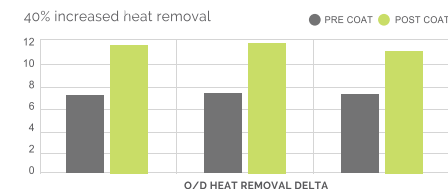


Carrier 30RBB08065 80 ton Air-cooled Chiller

Based on a 60 minute run cycle at 89 degrees outdoor temp.

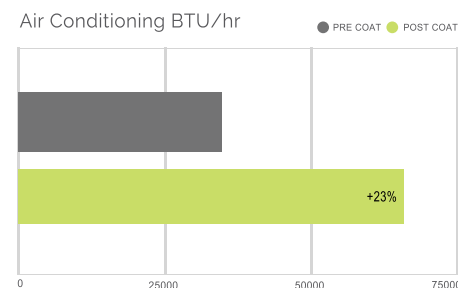


Heat removal increased 40%



Chiller Service CSM20 20 ton Air-cooled Chiller servicing a VFD System

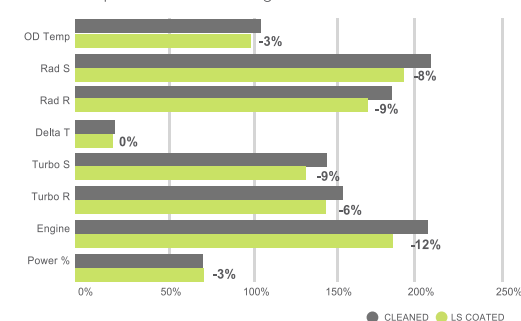
Pre Liquid SEER application vs. post application



CAT 3512b Generator

Temperature Comparison Liquid SEER coating vs. cleaned radiator running under similar conditions with minimal load

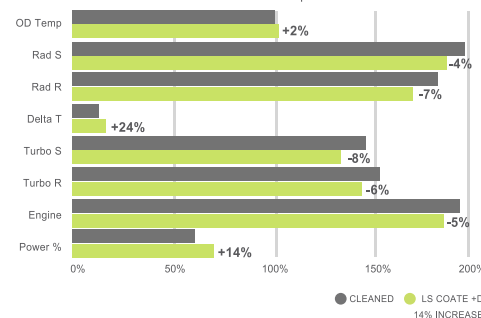
Temp Data of Different Engines in Similar Conditions



CAT 3512b Generator

Temperature Comparison Liquid SEER coating vs. cleaned radiator running under similar conditions with a 14% load increase

Temp Data of Same Engines With 14% Load Increase and Outdoor Temp Increase



CAT 3512b Generator

Temperature Comparison Liquid SEER coating vs. cleaned radiator running under similar conditions with a 24% load increase

Temp Data of Different Engines With 24% Load Increase

