

Energy Solutions

Residential Case Study

Residence

Location: Richmond, Virginia

Residential Type: 2 story plus basement

Square Feet: Approximately 3,500 square feet

Situation: A ten year old, 2-ton unit with moderate coil clogging, mildew and debris both in the coils as well as on the unit proper. Due to this clogging and corrosion a moderate loss of heating & cooling efficiency and possible accelerated deterioration by excess debris and other corrosion-causing agents was noted. Before servicing the recorded output temperature at a primary upstairs residence duct was **53.5** degrees Fahrenheit. Various other temperature measurements were noted as follows: Condenser coolant line—**56.3** degrees F; Condenser fan output—**83.2** degrees F.

Solution: On May 10th 2002 Adsil AD-35 was applied to the unit, coils, and fins after a thorough unit cleaning and rinsing. As noted above, temperature measurements were taken at various cooling system locations before and after our servicing and application of AD-35.

Results: The result of our servicing and treatment program was a **5.4% reduction in output temperature** (i.e., *improvement* in unit heating & cooling efficiency) as compared with that at the identical residential location *before* servicing—reduced from **53.5** degrees initially to **50.6** degrees after servicing (additional measurements showed similar results: Condenser coolant line temperature dropped from 56.3 to 55.3; and the condenser output temperature increased from 83.2 to 87.0—an *increase* that was expected & appropriate and demonstrated the increased transfer efficiency of the cleaned and treated unit. Additionally, the cleaning and application of AD-30 restored the unit to a like-new condition in appearance, performance, and operation. To this day, six years later, the unit continues to operate at this improved efficiency level with corresponding energy and electricity cost savings.

BEFORE SERVICING



AFTER SERVICING



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BEFORE and AFTER Case Study

BEFORE



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