



## Life Cycle Cost Estimate for 1 ENERGY STAR Qualified Room Air Conditioner(s)

This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.

Enter your own values in the gray boxes or use our default values.

Number of units	<input type="text" value="1"/>		
Electricity Rate (\$/kWh)	<input type="text" value="\$0.109"/>		
Choose your city from the menu at right	<input type="text" value="TX-Austin"/>		
		<b>ENERGY STAR Qualified Unit</b>	<b>Conventional Unit</b>
Initial Cost per Unit (estimated retail price)		<input type="text" value="\$275"/>	<input type="text" value="\$225"/>
Energy Efficiency Ratio (EER)		<input type="text" value="11.3"/>	<input type="text" value="8.0"/>
Cooling Capacity of Air Conditioner (Btu/hr)		<input type="text" value="8,000"/>	<input type="text" value="8,000"/>

### Annual and Life Cycle Costs and Savings for 1 Room Air Conditioner(s)

	1 ENERGY STAR Qualified Unit(s)	1 Conventional Unit(s)	Savings with ENERGY STAR
<b>Annual Operating Costs*</b>			
Energy cost	\$186	\$263	\$77
<i>Energy consumption (kWh)</i>	1,708	2,412	704
Maintenance cost	\$0	\$0	\$0
<b>Total</b>	<b>\$186</b>	<b>\$263</b>	<b>\$77</b>
<b>Life Cycle Costs*</b>			
Operating costs (energy and maintenance)	\$1,383	\$1,953	\$570
Energy costs	\$1,383	\$1,953	\$570
<i>Energy consumption (kWh)</i>	15,368	21,708	6,340
Maintenance costs	\$0	\$0	\$0
Purchase price for 1 unit(s)	\$275	\$225	-\$50
<b>Total</b>	<b>\$1,658</b>	<b>\$2,178</b>	<b>\$520</b>
	Simple payback of initial additional cost (years) <sup>†</sup>		<b>0.7</b>

\* Annual costs exclude the initial purchase price. All costs, except initial cost, are discounted over the products' lifetime using a real discount rate of 4%. See "Assumptions" to change factors including the discount rate.

<sup>†</sup> A simple payback period of zero years means that the payback is immediate.

### Summary of Benefits for 1 Room Air Conditioner(s)

Initial cost difference	<b>\$50</b>
Life cycle savings	<b>\$570</b>
Net life cycle savings (life cycle savings - additional cost)	<b>\$520</b>
Simple payback of additional cost (years)	<b>0.7</b>
Life cycle energy saved (kWh)	<b>6,340</b>
Life cycle air pollution reduction (lbs of CO <sub>2</sub> )	<b>9,763</b>
Air pollution reduction equivalence (number of cars removed from the road for a year)	<b>1</b>
Air pollution reduction equivalence (acres of forest)	<b>1</b>
Savings as a percent of retail price	<b>189%</b>