

Energy Consumption, Coating & Replacement Cost Evaluations Projected 3 YEAR Operating Energy Costs (OC)

Coil Coated With Bronz-Glow 600/800 Series				<i>UNCOATED COIL</i>				
5 Ton Unit (Bronz-Glow coil coating cost \$395)				5 Ton Unit (coil replacement cost \$1500)				
SEER	Operating Cost	OC + Coating \$	Operating Cost/hr	Operating Cost	OC+Coil Repl. \$	Operating Cost/hr	Operating Loss/hr	TOTAL 3-YR \$ LOSS
14	\$3,540.00	\$3,935.00	\$0.25	\$5,475.00	\$6,975.00	\$0.44	-\$0.19	-\$3,034.25
12	\$4,131.00	\$4,526.00	\$0.29	\$6,404.00	\$7,904.00	\$0.50	-\$0.21	-\$3,371.61
10	\$4,956.00	\$5,351.00	\$0.34	\$7,682.00	\$9,182.00	\$0.58	-\$0.24	-\$3,823.75
10 Ton Unit (Bronz-Glow coil coating cost \$510)				10 Ton Unit (coil replacement cost \$1800)				
14	\$7,080.00	\$7,590.00	\$0.48	\$10,974.00	\$12,774.00	\$0.81	-\$0.33	-\$5,174.19
12	\$8,262.00	\$8,772.00	\$0.55	\$12,806.00	\$14,606.00	\$0.92	-\$0.37	-\$5,822.96
10	\$9,908.00	\$10,418.00	\$0.66	\$15,363.00	\$17,163.00	\$1.08	-\$0.43	-\$6,732.24
20 Ton Unit (Bronz-Glow coil coating cost \$770)				20 Ton Unit (coil replacement cost \$3000)				
14	\$14,160.00	\$14,930.00	\$0.94	\$21,948.00	\$24,948.00	\$1.57	-\$0.63	-\$9,999.05
12	\$16,524.00	\$17,294.00	\$1.09	\$25,613.00	\$28,613.00	\$1.80	-\$0.71	- \$11,297.59
10	\$19,824.00	\$20,594.00	\$1.30	\$31,268.00	\$34,268.00	\$2.16	-\$0.86	- \$13,648.13

Projection Criteria:

Navy Corrosion Test N-1560 and Project Operating Cost Base Rates Provided by Florida Power & Light demonstrate the projected energy operating expense and equipment replacement cost of units operating with a coated and non-coated coil. All projections are based on Navy Test Data, Florida Power & Light Rates and ASTM Salt Spray Tests Conducted on Bronz-Glow 600 & 800 Series coil coatings.

P&L rate calculations are based on 8,760 hours/year the A/C unit is on and 5,286 operation hours per year; or 8 months on Peak Operating Time and having 60% diversity (5,286 x 3 years = 15,858 hours over 3 years). The energy usage cost is calculated at \$8.14/Kw/month Demand Charge and 0.040/Kw energy charge, operating 480V, 3 phase 60Hz fin tube air-to-air cooling of refrigeration.