

Annual Energy and Emissions Summary

Multi-Story Office Building
Carrier Corporation

08/27/2002
03:15PM

Table 1. Annual Costs

Component	STD Econ (\$)	STD Econ Vent/RCLM (\$)	STD No Econ (\$)
HVAC Components			
Electric	77,885	77,068	91,284
Natural Gas	21,821	20,094	21,821
Fuel Oil	0	0	0
Propane	0	0	0
Remote HW	0	0	0
Remote Steam	0	0	0
Remote CW	0	0	0
HVAC Sub-Total	99,706	97,162	113,105
Non-HVAC Components			
Electric	291,910	290,730	288,955
Natural Gas	0	0	0
Fuel Oil	0	0	0
Propane	0	0	0
Remote HW	0	0	0
Remote Steam	0	0	0
Non-HVAC Sub-Total	291,910	290,730	288,955
Grand Total	391,616	387,893	402,060

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Table 2. Annual Energy Consumption

Component	STD Econ	STD Econ Vent/RCLM	STD No Econ
HVAC Components			
Electric (kWh)	662,876	660,567	792,454
Natural Gas (Therm)	30,265	27,870	30,265
Fuel Oil (na)	0	0	0
Propane (na)	0	0	0
Remote HW (na)	0	0	0
Remote Steam (na)	0	0	0
Remote CW (na)	0	0	0
Non-HVAC Components			
Electric (kWh)	2,565,304	2,565,304	2,565,304
Natural Gas (Therm)	0	0	0
Fuel Oil (na)	0	0	0
Propane (na)	0	0	0
Remote HW (na)	0	0	0
Remote Steam (na)	0	0	0
Totals			
Electric (kWh)	3,228,180	3,225,871	3,357,758
Natural Gas (Therm)	30,265	27,870	30,265
Fuel Oil (na)	0	0	0
Propane (na)	0	0	0
Remote HW (na)	0	0	0
Remote Steam (na)	0	0	0
Remote CW (na)	0	0	0

Table 3. Annual Emissions

Component	STD Econ	STD Econ Vent/RCLM	STD No Econ
CO2 (lb)	5,810,769	5,806,612	6,044,008
SO2 (kg)	33,573	33,549	34,921
NOx (kg)	11,299	11,291	11,752

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Table 4. Annual Cost per Unit Floor Area

Component	STD Econ (\$/ft ²)	STD Econ Vent/RCLM (\$/ft ²)	STD No Econ (\$/ft ²)
HVAC Components			
Electric	0.240	0.237	0.281
Natural Gas	0.067	0.062	0.067
Fuel Oil	0.000	0.000	0.000
Propane	0.000	0.000	0.000
Remote HW	0.000	0.000	0.000
Remote Steam	0.000	0.000	0.000
Remote CW	0.000	0.000	0.000
HVAC Sub-Total	0.307	0.299	0.348
Non-HVAC Components			
Electric	0.898	0.894	0.889
Natural Gas	0.000	0.000	0.000
Fuel Oil	0.000	0.000	0.000
Propane	0.000	0.000	0.000
Remote HW	0.000	0.000	0.000
Remote Steam	0.000	0.000	0.000
Non-HVAC Sub-Total	0.898	0.894	0.889
Grand Total	1.205	1.193	1.237
Gross Floor Area (ft ²)	325101.4	325101.4	325101.4
Conditioned Floor Area (ft ²)	325101.4	325101.4	325101.4

Note: Values in this table are calculated using the Gross Floor Area.

Table 5. Component Cost as a Percentage of Total Cost

Component	STD Econ (%)	STD Econ Vent/RCLM (%)	STD No Econ (%)
HVAC Components			
Electric	19.9	19.9	22.7
Natural Gas	5.6	5.2	5.4
Fuel Oil	0.0	0.0	0.0
Propane	0.0	0.0	0.0
Remote HW	0.0	0.0	0.0
Remote Steam	0.0	0.0	0.0
Remote CW	0.0	0.0	0.0
HVAC Sub-Total	25.5	25.0	28.1
Non-HVAC Components			
Electric	74.5	75.0	71.9
Natural Gas	0.0	0.0	0.0
Fuel Oil	0.0	0.0	0.0
Propane	0.0	0.0	0.0
Remote HW	0.0	0.0	0.0
Remote Steam	0.0	0.0	0.0
Non-HVAC Sub-Total	74.5	75.0	71.9
Grand Total	100.0	100.0	100.0