

Energy Budget by System Component - STD No Econ

Multi-Story Office Building
Carrier Corporation

08/27/2002
03:16PM

1. Annual Coil Loads

Component	Load (kBTU)	(kBTU/ft ²)
Cooling Coil Loads	7,253,937	22.313
Heating Coil Loads	2,385,366	7.337
Grand Total	9,639,303	29.650

2. Energy Consumption by System Component

Component	Site Energy (kBTU)	Site Energy (kBTU/ft ²)	Source Energy (kBTU)	Source Energy (kBTU/ft ²)
Air System Fans	897,117	2.760	3,203,990	9.855
Cooling	1,040,982	3.202	3,717,794	11.436
Heating	3,026,501	9.309	3,026,501	9.309
Pumps	273,339	0.841	976,210	3.003
Cooling Towers	492,410	1.515	1,758,605	5.409
HVAC Sub-Total	5,730,349	17.626	12,683,100	39.013
Lights	6,216,751	19.123	22,202,682	68.295
Electric Equipment	2,536,170	7.801	9,057,751	27.861
Misc. Electric	0	0.000	0	0.000
Misc. Fuel Use	0	0.000	0	0.000
Non-HVAC Sub-Total	8,752,921	26.924	31,260,433	96.156
Grand Total	14,483,270	44.550	43,943,533	135.169

Notes:

1. 'Cooling Coil Loads' is the sum of all air system cooling coil loads.
2. 'Heating Coil Loads' is the sum of all air system heating coil loads.
3. Site Energy is the actual energy consumed.
4. Source Energy is the site energy divided by the electric generating efficiency (28.0%).
5. Source Energy for fuels equals the site energy value.
6. Energy per unit floor area is based on the gross building floor area.
 Gross Floor Area **325101.4** ft²
 Conditioned Floor Area **325101.4** ft²