

7.4.5 Typical Hospital Building (1)

	<u>Pre-1980</u>	<u>Post-1980</u>
Stock Floor Area (billion ft²)	1.43	0.21
Floor-Area Weighted Averages		
Building Area (thousand ft ²)	66.2	156
Floors	6	12
SHELL		
Percent Glass	25	25
Window R-Value	1.79	1.96
Window Shading Coefficient	0.71	0.66
Wall R-Value	0.3	6.9
Roof R-Value	12.3	11.5
Wall Material	masonry	masonry
Roof Material	built-up	built-up
OCCUPANCY		
Average Occupancy (ft ² /person)	190	190
Weekday Hours (hrs/day)	24	24
Weekend Hours (hrs/day)	24	24
EQUIPMENT		
Average Power Density (W/ft ²)	2.20	2.20
Full Equipment Hours (hrs/year)	6962	6962
LIGHTING		
Average Power Density (W/ft ²)	2.1	2.1
Full Lighting Hours (hrs/year)	6752	6752
SYSTEM AND PLANT		
System and Distribution Type	4-pipe fan-coil in rooms reheat in lobby & core single-zone reheat in kitchen dual-duct in kitchen	4-pipe fan-coil in rooms VAV in lobby & core single-zone reheat in kitchen dual-duct in kitchen
Heating Plant	Gas Boiler	Gas Boiler
Cooling Plant	Hermetic Centrifugal Chiller	Direct Expansion
Service Hot Water	Gas Boiler	Gas Boiler

Note(s): 1) The prototypes are synthetic buildings compiled from statistical data from building surveys or conclusions from previous studies. The physical characteristics, system characteristics, and usage patterns are based upon various surveys, studies, engineering estimates, or engineering judgment.

Source(s): LBNL, Commercial Heating and Cooling Loads Component Analysis, June 1998, Table 14, p. 35.