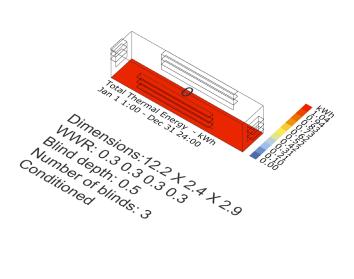
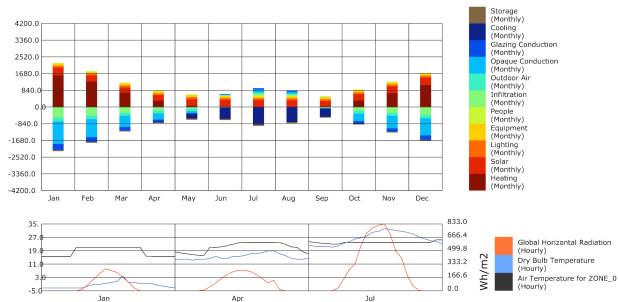
Original Value



ARCH633 Environmental Systems I

Cooling Load: 99.85 kWh/m2 Heating Load: 206.50 kWh/m2 Total Load: 306.36 kWh/m2



Stratagy

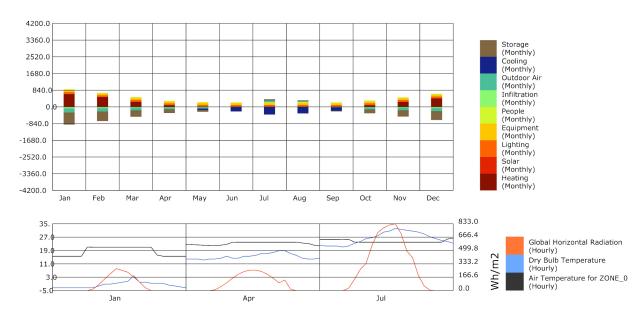
- Minimize cooling load:
 - 1. reduce solar radiation
 - 2. reduce conduction
- Minimize heating load:
 - 1. reduce infiltration
 - 2. reduce conduction
- Because heating load is much more than cooling load, the adjustments should incline to minimize cooling load.

Result

Dimensions: 72 Condition of blinds: 5

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Cooling Load: 40.36 kWh/m2 Heating Load: 76.29 kWh/m2 Total Load: 116.65 kWh/m2

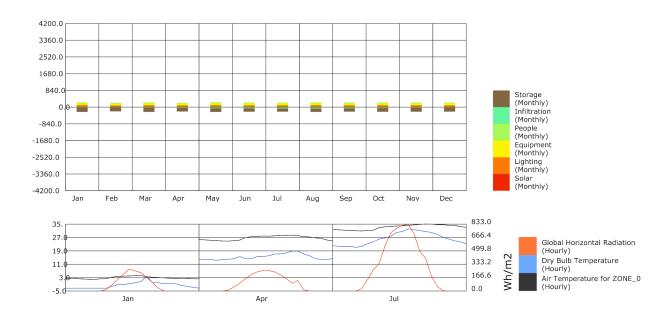


WWR: North 0.0 West 0.0 South 0.0 East 0.0 Construction: Exterior Wall R34.4 Exterior Window R1.9, SHGC 0.39 Exterior Roof R34.4 Air Change Hour 0.0

Thermal Mass: Existing Slab Construction

- WWR is the most effective parameter.
- No system

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Temperature range: Summer 30 - 35 Winter 1-5