

CLIMATE ANALYSIS

Philadelphia, Pennsylvania
Climate Zone 4A
Latitude: 39.87°

Occupied hours: 6pm - 8am

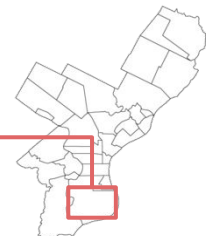
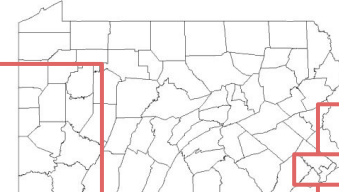
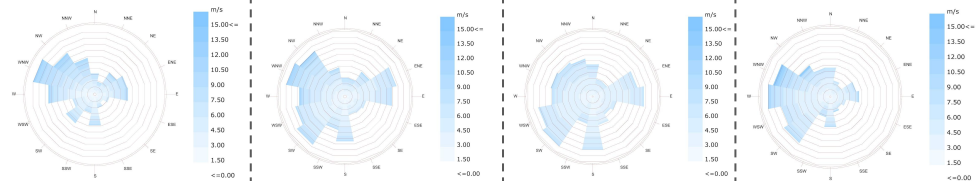
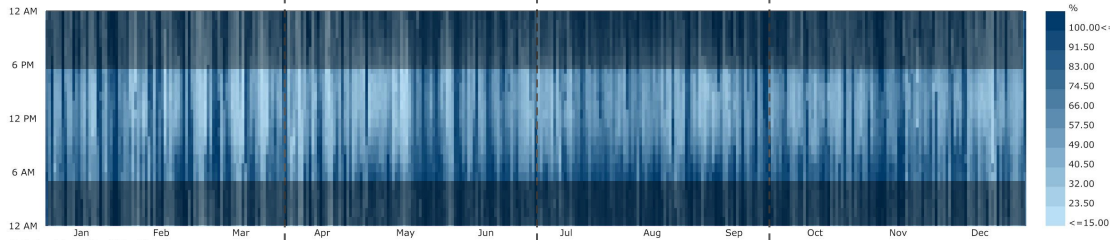
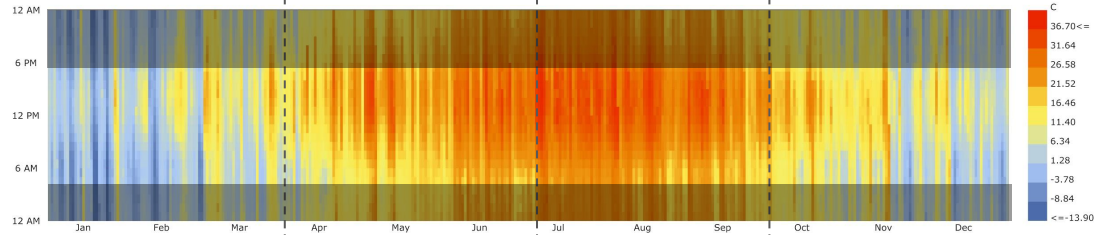
Air temperature in Philadelphia fluctuates between 5°C and 30°C, predominantly on the cold side (under 18°C). This creates the need for space heating almost 66% of the year.

The two basic techniques suggested to achieve comfort in this kind of weather are:

- Shading at an angle that covers windows during the summer, but exposes them during the winter.
- Smart insulation.

Humidity is relatively acceptable, which permits us to take advantage of natural ventilation for certain spaces. The unit's location and rotation relative to north is optimal for taking in the NW prevailing wind during the hotter part of the year.

Because of occupation times, it is suggested to utilize interior blinds in order to protect TV and working spaces from glare during the early morning.



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Comfortable hours: 1469 (16.77%)
Heating hours: 5709 (65.17%)
Cooling hours: 1582 (18.06%)

