

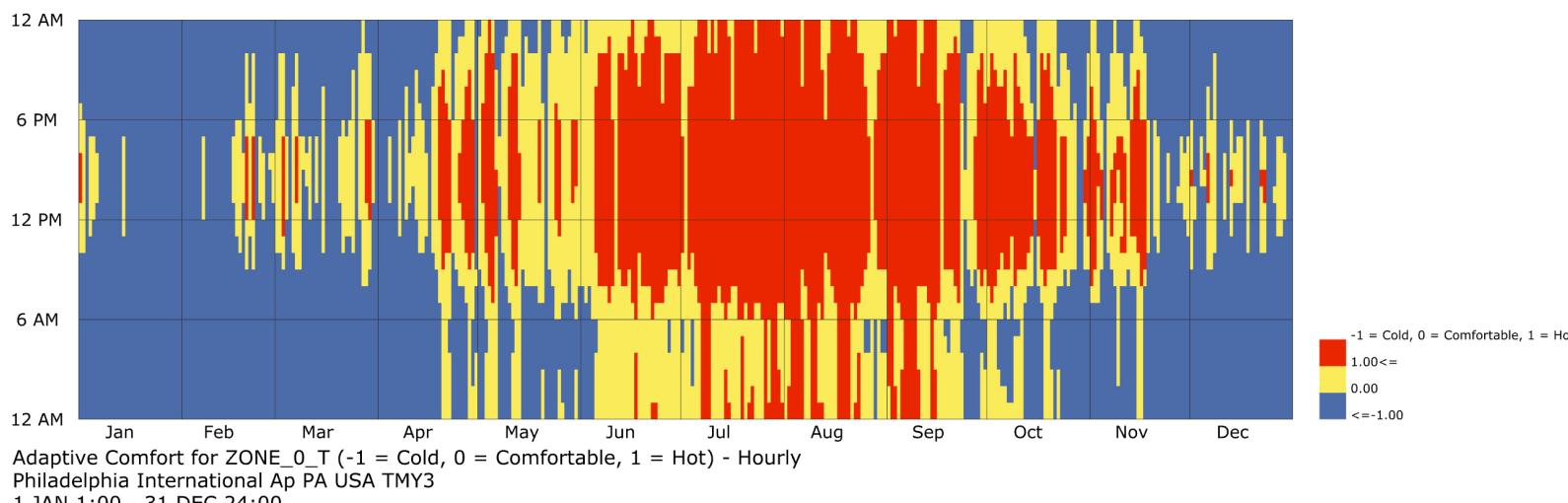
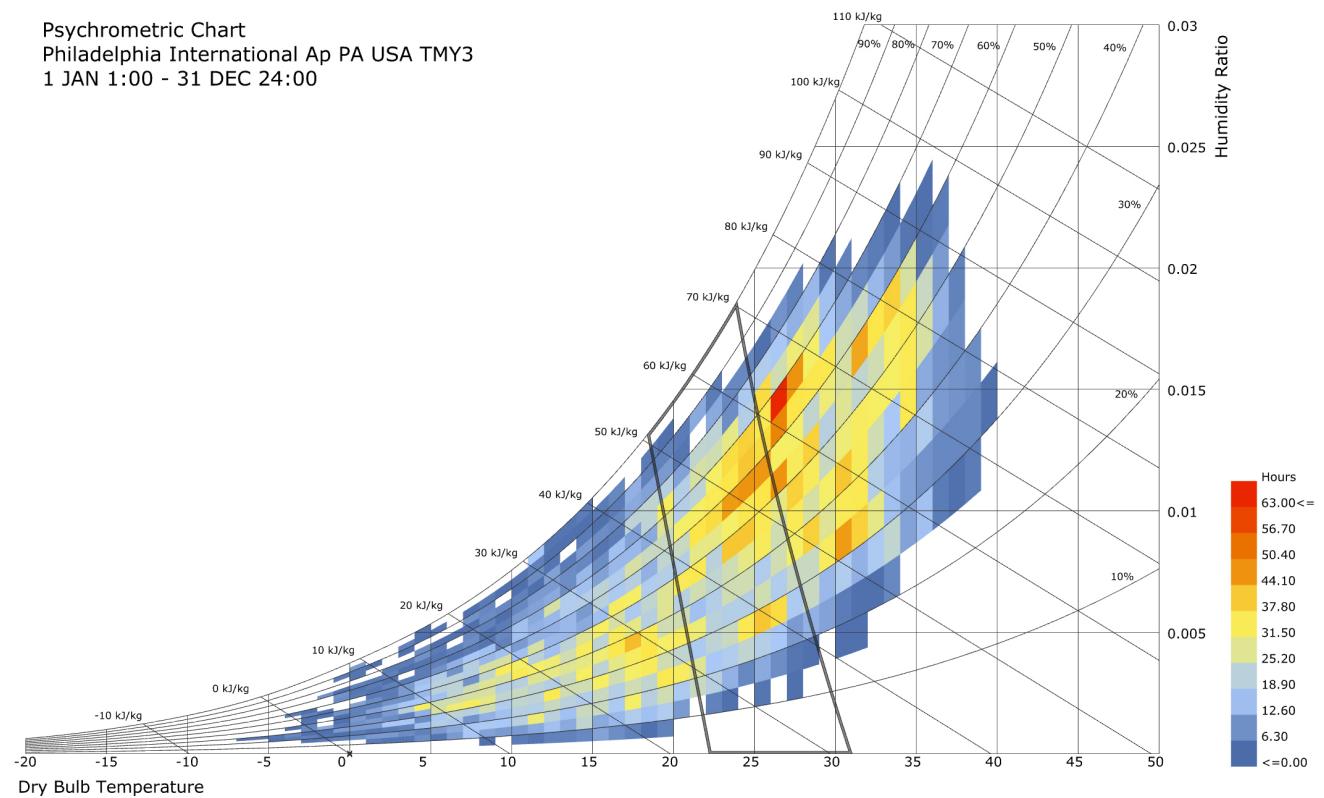
# Energy Simulation Energy Balance Diagram

Building Performance Simulation

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Psychrometric Chart  
Philadelphia International Ap PA USA TMY3  
1 JAN 1:00 - 31 DEC 24:00



## Wall to Window Ratio

North 0

West 0

South 0.9

East 0

## Rotation Angle 0 degree

### Blinds

Shading depth .4

Number of blinds 4

### Construction

Exterior Wall R34.4

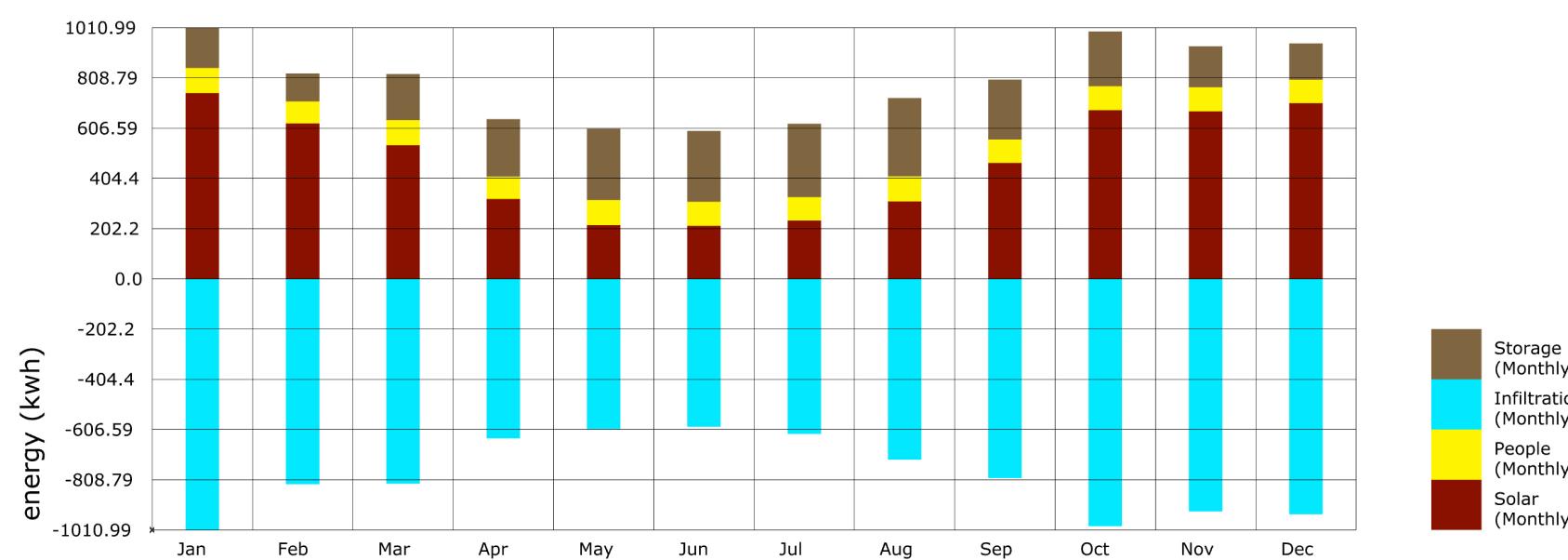
Exterior Window R 0.7, SHGC 0.65

Exterior Roof R34.4

Air change hour 3.52

### Thermal Mass

Existing Slab + 8 inches concrete



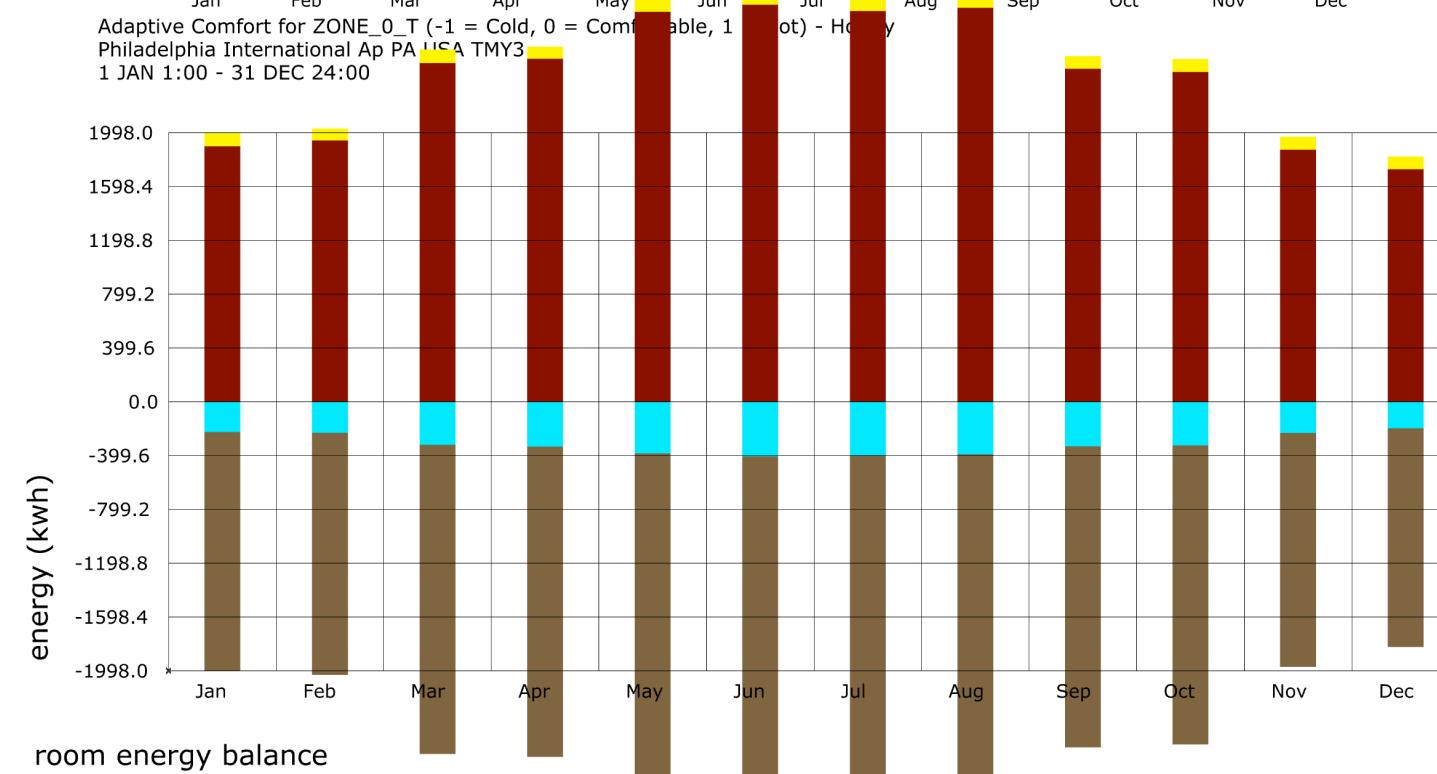
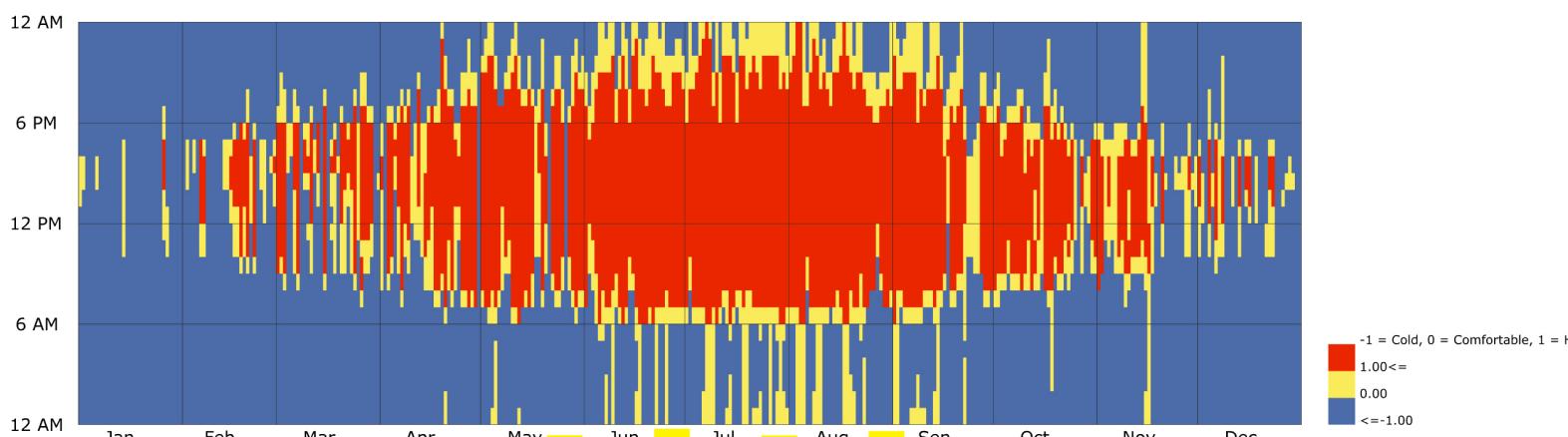
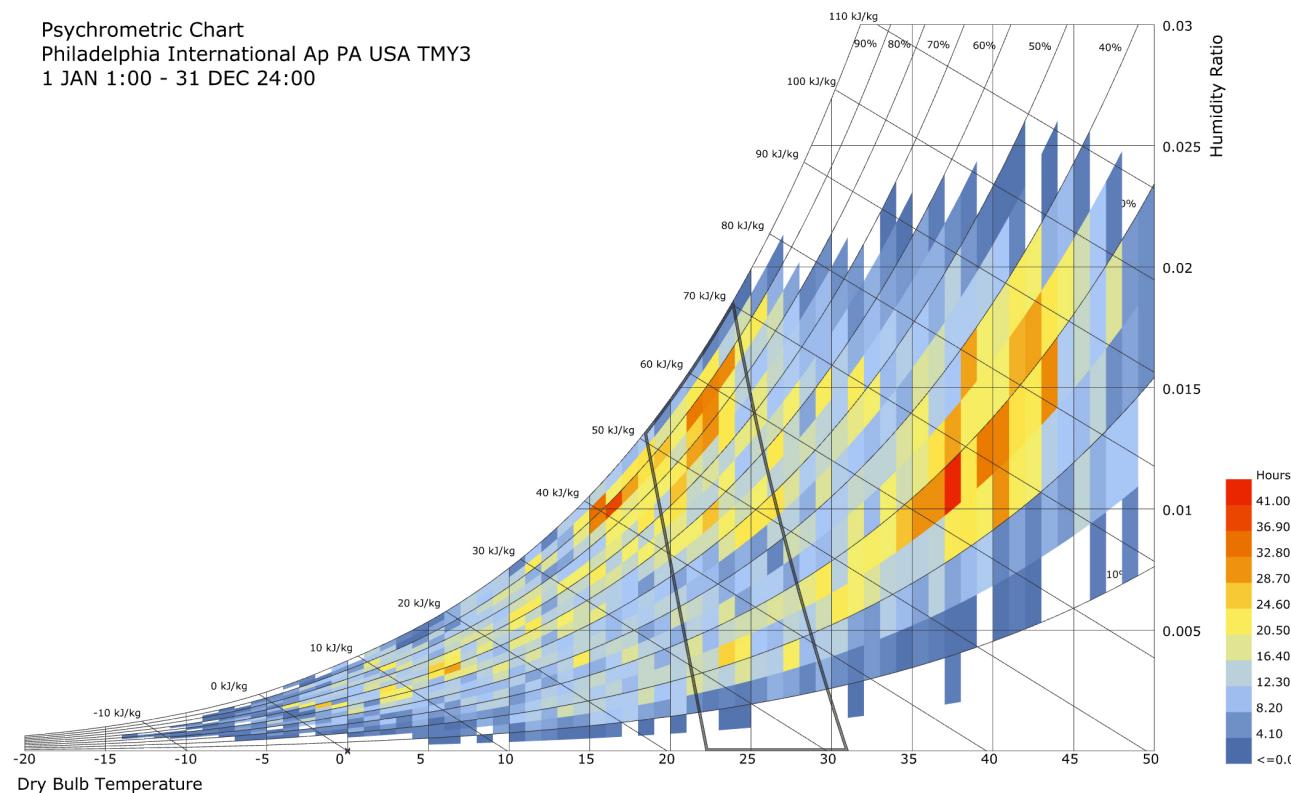
room energy balance

Comfortable (%): 27.1

Hot (%): 27.39

Cold (%): 45.51

Psychrometric Chart  
Philadelphia International Ap PA USA TMY3  
1 JAN 1:00 - 31 DEC 24:00



Comfortable (%): 14.38  
Hot (%): 28.81  
Cold (%): 56.8

## Wall to Window Ratio

North 0.7

West 0.7

South 0.7

East 0.7

## Rotation Angle 0 degree

### Blinds

Shading depth .5

Number of blinds 3

### Construction

Exterior Wall R5.5

Exterior Window R 1.0, SHGC 0.7

Exterior Roof R9.2

Air change hour 2.00

### Thermal Mass

Existing Slab Construction

Storage (Monthly)  
Infiltration (Monthly)  
People (Monthly)  
Solar (Monthly)