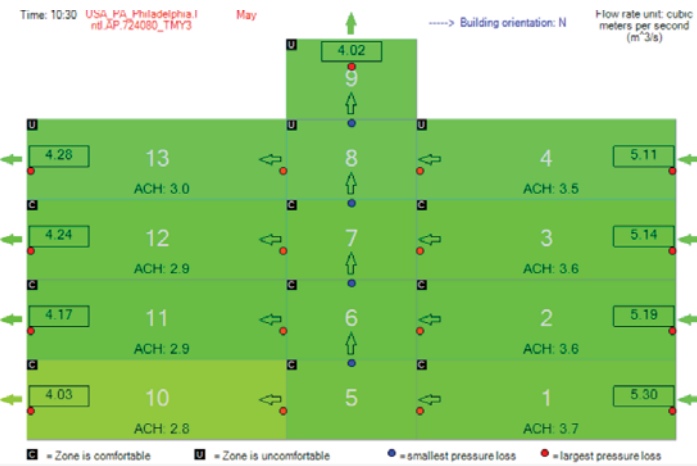
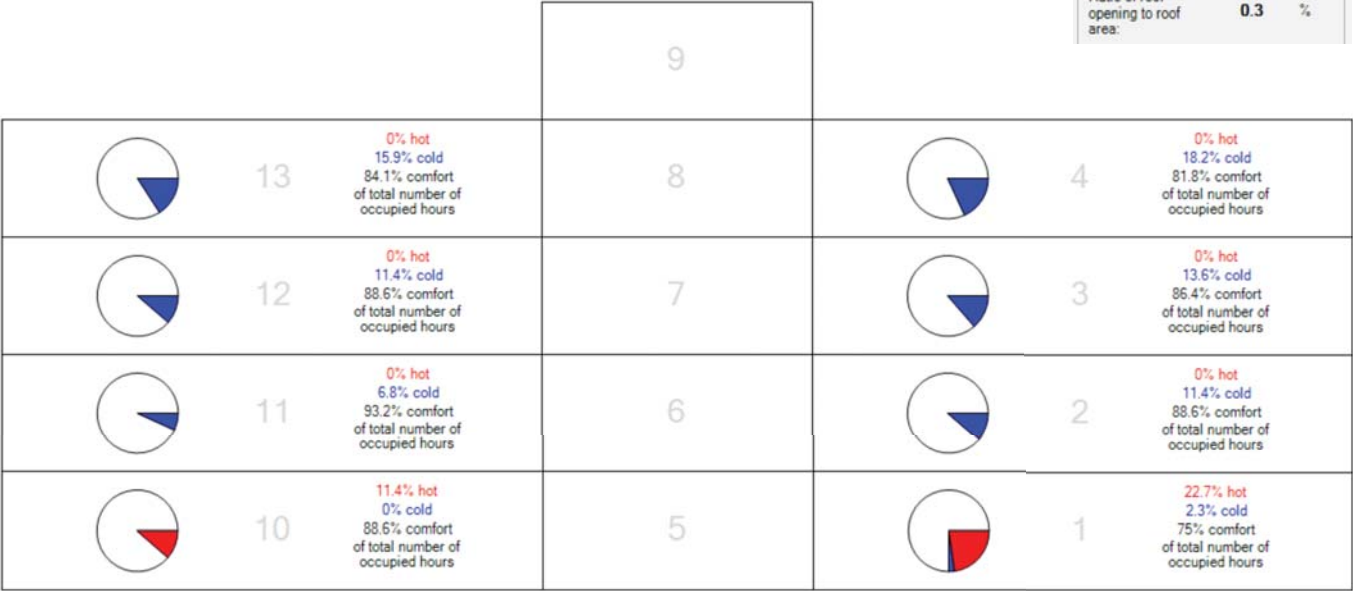


MEYERSON VENTILATION STUDY

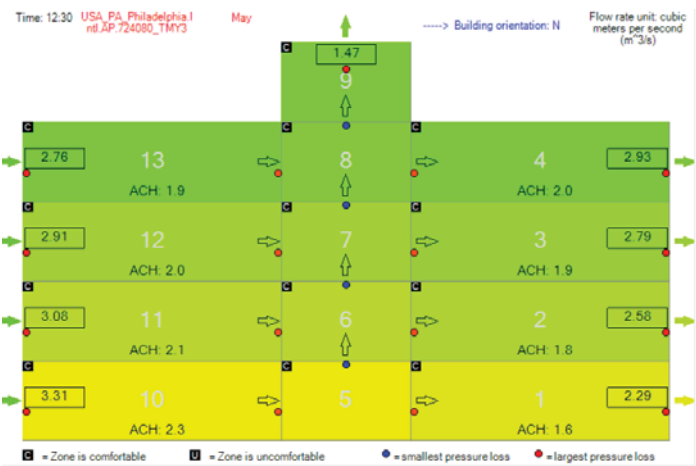
1. CENTRAL ATRIUM

The first strategy employs a central atrium of 10 meters wide and 4 meters high. The occupancy schedule is from 9AM-7PM, with 60m2 window glazing area per floor per facade and total occupiable area of 2310 m2 per floor. Thermal mass is included in the calculations, which are simulated to run in May. Overall, the building is comfortable between 75% and 93.2% of occupiable hours.

Scenario summary	
Simulation type: transient	
Building type: central atrium	
Building footprint:	2660.0 m <sup>2</sup>
Occupied area per floor:	2310.0 m <sup>2</sup>
Glazing-to-wall ratio per floor:	38.1 %
Opening-to-wall ratio per floor:	1.3 %
Ratio of roof opening to roof area:	0.3 %



Airflow @ 10:30 AM



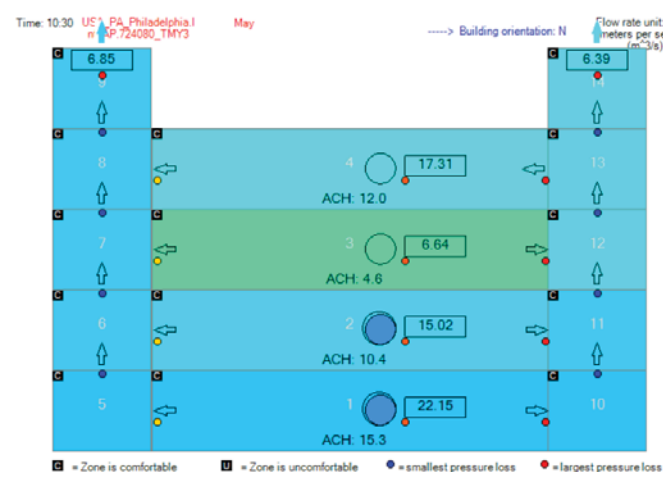
Airflow @ 12:30 PM

2. VENTILATION SHAFTS

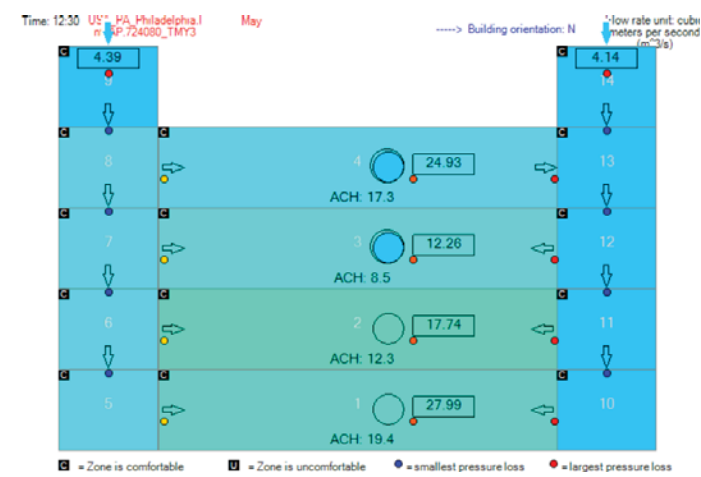
The second strategy employs 2 ventilation shafts of 10 x 10 x 10 meters. The occupancy schedule is from 9AM-7PM, with 60m2 window glazing area per floor per facade and total occupiable area of 2310 m2 per floor. A higher percentage of the windows are assumed to be operable. Thermal mass is not included in the calculations, which are simulated to run in May. Overall, the building is comfortable between 84.1% and 97.7% of occupiable hours.

Scenario summary		
Simulation type: transient		
Building type: ventilation shaft		
Building footprint:	1505.0	m <sup>2</sup>
Occupied area per floor:	1155.0	m <sup>2</sup>
Glazing-to-wall ratio per floor:	38.1	%
Opening-to-wall ratio per floor:	6.3	%
Ratio of roof opening to roof area:	1.0	%

9				14
8		4	0% hot 9.1% cold 90.9% comfort of total number of occupied hours	13
7		3	11.4% hot 4.5% cold 84.1% comfort of total number of occupied hours	12
6		2	0% hot 2.3% cold 97.7% comfort of total number of occupied hours	11
5		1	0% hot 2.3% cold 97.7% comfort of total number of occupied hours	10



Airflow @ 10:30 AM



Airflow @ 12:30 PM