This represents a laboratory (note: requirements of the Fume Hood exceed the minimum required airflow rates established for the laboratory).

1. CODE MINIMUM OUTDOOR VENTILATION AIRFLOW: NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE (2015 IMC), TABLE 403.3, OCCUPANCY CLASSIFICATION - EDUCATION SCIENCE LABORATORIES, 10 CFM/PERSON + 0.18 CFM/FT² WITH A DEFAULT OCCUPANT DENSITY OF 25 PEOPLE PER 1000 FT².

2. CODE MINIMUM EXHAUST AIRFLOW: NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE (2015 IMC), TABLE 403.3, OCCUPANCY CLASSIFICATION - EDUCATION SCIENCE LABORATORIES, 1.00 CFM/FT².

3. OCCUPIED SASH FULL MODE: FUME HOOD EXHAUST AIRFLOW REPRESENTS A 100 FPM FACE VELOCITY AT 18-INCH SASH HEIGHT, SASH IS ABOVE 18-INCHES. FUME HOOD EXHAUST VALVE SHALL NOT INDEX TO UNOCCUPIED MODE.

4. OCCUPIED SASH OPEN MODE: FUME HOOD EXHAUST AIRFLOW REPRESENTS A 65 FPM FACE VELOCITY, SASH IS AT OR BELOW 18-INCHES. FUME HOOD EXHAUST VALVE SHALL INDEX TO UNOCCUPIED MODE.

5. UNOCCUPIED SASH CLOSED MODE: CALCULATED BASED ON SPECIFIC HAZARD. IN THIS EXAMPLE, THE HOOD MINIMUM IS SET FOR 150 HOOD AIR CHANGES PER HOUR (ANSI/AIHA Z9.5-2012).

6. UNOCCUPIED SASH OPEN MODE: FUME HOOD EXHAUST AIRFLOW REPRESENTS A 80-100 FPM FACE VELOCITY AT 18-INCH SASH HEIGHT. Fume hood exhaust valve shall not index to unoccupied mode.

7. UNOCCUPIED SASH CLOSED MODE: CALCULATED BASED ON SPECIFIC HAZARD. IN THIS EXAMPLE, THE HOOD MINIMUM IS SET FOR 150 HOOD AIR CHANGES PER HOUR (ANSI/AIHA Z9.5-2012).

9. THE MAX / MIN POSITIONS ON THE VALVE WILL BE SET AT THE FACTORY TO THE FULL RANGE WITH ACTUAL AIRFLOW SETPOINTS SET IN SOFTWARE.