Inlet Regime A: In high - Out low

Particle deposition: 0.5 microns, 1 micron & 10microns

Transient deposition of a range of particle sizes is compared to bioaerosol tests run by Miller. Total water particles: 3600 released over 1 second with a burst velocity of 86m/s to resemble a sneeze.

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

Species Transport vs Passive Scalar

A pulse (qualitative amount) of both CO\_2 and inert scalar are released at the centre of the room at t\_0.

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

# Mean residence time (1/t) minutes, and ACH from CFD

|  |  |
| --- | --- |
| CO2 | UDS |
| 4.7 mins, 12.6 ACH | Inconclusive |

Inlet Regime B: In ceiling - Out low

Air changes per hour from experimental set-up

|  |  |
| --- | --- |
| Figure Run 1 ACH=2.16 | Figure Run 2 ACH=2.6 |