Cleanroom Air Handling

- Air handling is a key element to cleanroom operation; there are various methods to implement air handling, our system uses a unidirectional vertical air flow.
- Fresh outside air is brought in through 8 High Efficiency Particulate Air (HEPA) filters and dehumidified before it reaches the cleanroom plenum.
- The air inside the cleanroom is constantly recirculated and supplemented with outside air.
- 14 air handler units move air from the plenum into the cleanroom.
- There are a total of 84 HEPA filters that pre-filter air going into the 14 air handlers.
- The entire ceiling of the cleanroom is covered with 296 Ultra Low Particulate Air (ULPA) filter panels; the air handlers push the air through these filters.
- The air moves unidirectional downward toward the floor and exits through vents along the bottoms of the walls.