

Benefits of Displacement Ventilation System

- **Low Velocity & Low Noise**
 - **Excellent pollution removal**
 - **High ventilation effectiveness**
 - **Excellent Thermal Comfort**
 - **Reduced cooling loads and high energy efficiency**
- Fresh air from the outside is tempered in heat transfer wheels to reduce thermal waste to the outside. The fresh air is combined with ventilation air, which has been filtered by MERV-13 filters within the air handling unit, and is supplied quietly at low velocity close to the occupants.
- The system uses naturally occurring buoyant forces when airflow contacts heat generating sources within the space to create a vertical rise of the air throughout the space, in turn displacing room air with pollutants upward toward room exhaust, typically resulting in lower room CO2 levels and excellent pollution removal.
- The displacement airflow and resulting thermal gradient in the room also results in reduced cooling loads since only the occupied area has to be maintained at comfort level temperature setpoint. This results in smaller equipment sizes and higher energy efficiency.

