

Displacement Ventilation

Versatile, Energy Efficient System

Displacement Ventilation systems are fully stratified systems that use low velocity supply air to displace warm room air. Supply air is introduced into the occupied zone and travels along the floor until it reaches a heat source such as a person or computer. As the heat source is cooled, natural convection causes the supply air to rise up around the heat source and exit through a ceiling return. Since contaminants and stale air are not continually mixed in the occupied space, displacement ventilation provides the highest level of Indoor Air Quality (IAQ) of any air distribution system.

Titus has a full line of displacement diffusers in various shapes and sizes to meet any design application requirements. All Titus displacement diffusers feature integral pattern controllers that can be adjusted in various configurations to change the size and shape of the adjacent zone. This provides maximum versatility in the field when space requirements change – while still maintaining the optimum level of occupant comfort.

Features & Benefits

- Displacement Ventilation systems can contribute toward achieving the LEED Increased Ventilation credit.
- The pattern controllers are field adjustable and can be reconfigured for comfort after installation.
- Provides energy savings from the warmer supply air.
- Similar to underfloor systems because it uses warmer supply air and lower pressures than conventional overhead systems.