Linear Capacity™

DEDICATED OUTDOOR AIR SYSTEM

Innovative ventilation technology providing breakthrough energy performance, indoor air quality and comfort

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PATENT PENDING
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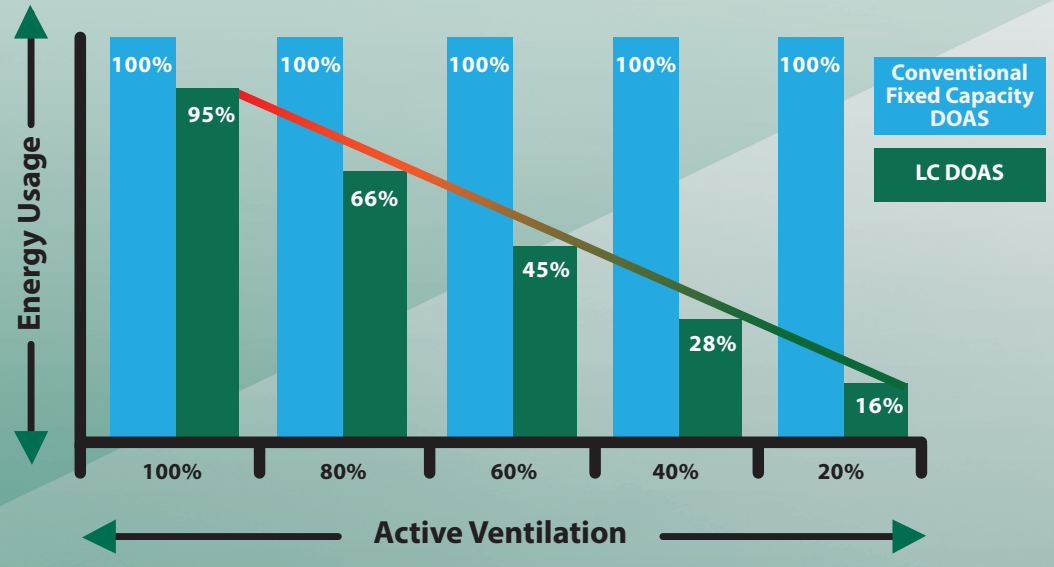
Application Range from
300 - 7,500 CFM of Outdoor Air

Greater Than 50% Energy Savings* Versus Conventional Fixed Capacity DOAS



*Source: *Florida Solar Energy Center®*, Report FSEC-CR-2044-16.

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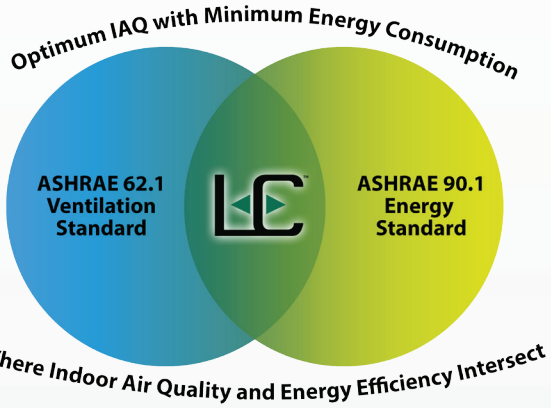
LINEAR CAPACITY™ ADVANTAGES

- Greater than 50% reduction in energy cost versus conventional fixed capacity DOAS
- Optimized linear performance from 100% down to 20% of ventilation load
- Active ventilation is adaptable for IAQA flush-out per LEED EQc4
- Enhanced IAQ by managing moisture content of the outdoor air throughout the ventilation range
- Demand based ventilation through Active Coil Exposure™ , variable refrigerant capacity and air flow modulation
- Optimal for both retrofit and new construction
  - Based on building occupancy, activity and/or desired VOC levels
  - Configurable for current or future tenant build out
- Breakthrough turn-down range



LINEAR CAPACITY™ OPERATION

- During Occupied Mode supply fan modulates to meet the ventilation demand
- Active Coil Exposure™ positions to maintain designed leaving dew point
- Based on cooling demand, brushless permanent magnet variable speed scroll compressor modulates to meet required refrigerant mass flow
- Modulating condenser fans maintain precise head pressure control throughout the entire operating range
- Integrated controls platform provides demand based ventilation through Active Coil Exposure™, variable refrigerant capacity and air flow modulation

ACTIVE COIL EXPOSURE™ MAINTAINS LEAVING DEWPOINT

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