

QLCI DISPLACEMENT INDUCTION VENTILATION

THE CORNERSTONE OF A WINNING HVAC SYSTEM

4 QLCI

- Receives 100% outside air from DOAS unit to drive room air induction process across integral coil
- Chilled water and hot water flow modulated to control sensible space loads
- Supply air delivered near floor in displacement mode for:
 - Effective removal of airborne contaminants for better IAO
 - Low velocity, temperate air for enhanced thermal comfort
 - No moving parts to maintain, produce noise, or consume electricity
- Provides industry leading system efficiency due to displacement ventilation and fluid-based heat transfer



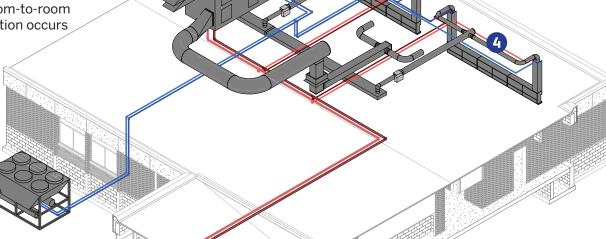
 Provides 100% dehumidified outside air for code required ventilation needs

Delivers verifiable outside air for occupantsRooftop or indoor mounting

Shown with hot water or chilled waterPackaged DX and gas heat suitable

Geothermal suitable

- · Typically energy recovery based
 - Desiccant devices suitable
- Isolates rooms so no room-to-room airside cross contamination occurs



2 CHILLER

- Provides chilled water for QLCI and possibly DOAS chilled water coil
- Air-cooled or water-cooled suitable
- If DOAS unit is packaged DX, dedicated elevated chilled water to QLCI offers high efficiency operation
- Alternatives:
 - No Chiller Design Option (only HW available)
 Packaged DX DOAS applied and designed to deliver cool, dehumidified primary air for recognized sensible cooling in space
 - Geothermal water applied Electrification
 - · Heat recovery chiller Electrification

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- **BOILER**
- Provides hot water for QLCI zone heating and possibly DOAS hot water coil
- Often high efficiency condensing style boilers applied
- · Gas fired or electric boiler suitable
- Alternatives:
 - If existing steam source available, apply a steam-to-hot water conversion
 - Some climate designs may not require hot water in the zone
 - Geothermal water applied Electrification
 - Heat Recovery Chiller Electrification