

1 DOAS UNIT

- Provides 100% dehumidified outside air for code required ventilation needs
- Delivers verifiable outside air for occupants
- Rooftop or indoor mounting
- Shown with hot water or chilled water
 - Packaged 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

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 IAQ
 - 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

3 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

