

INSIGHTS FOR A COMPLETE GAME PLAN

INSIGHT// **Dedicated Outdoor Systems**

By separating the ventilation & dehumidification loads from space conditioning, Dedicated Outdoor Air Systems (DOAS) design can bring a variety of benefits while providing a more comfortable environment.

- **HIGHER INDOOR AIR QUALITY**—A DOAS unit brings in filtered 100% fresh outdoor air directly to the occupied space. Increase filtration requirements are easy to specify in response to specific outside air or space requirements.
- **LOWER OVERALL HVAC ENERGY USE**— By efficiently tempering and dehumidifying outdoor air while utilizing energy recovery the overall HVAC consumption can be lowered.
- **EFFECTIVE HUMIDITY CONTROL**— DOAS units can be optimized for efficient humidity control, preventing moisture related issues and increasing occupant comfort.
- **FLEXIBILITY** — DOAS can be easily combined with a wide variety of other HVAC systems such as a RTUs, various types of terminal units, VFR, radiant panels, or chilled beams.

The overall DOAS market is expected to increase 8.0% from 2019 to 2024. Increased demand is related to broader adoption of code requirements for the design as well as growing interest in energy efficiency and the need to reduce carbon emissions to meet more stringent sustainability goals.

SOURCES: MARKETS & MARKETS, RENEWAIRE

