

Horizon[®] Dedicated Outdoor Air System (DOAS)



Indoor Air Quality: More Important Than Ever

Good indoor air quality (IAQ) plays a critical role in healthier building environments. Each building offers unique attributes that can affect its IAQ. These can include siting and design considerations, its history of renovations and maintenance, occupant density and activities, the quality of air outside the building, and a number of other factors.

Trane's Horizon Dedicated Outdoor Air Systems help improve IAQ to keep your building optimized and the people in your building comfortable.



How Horizon DOAS Works

Horizon DOAS supplies dehumidified, temperature-adjusted outdoor air to help building operators meet ventilation code requirements. By operating at a lower dew point, Horizon helps prevent property, health, and comfort problems associated with the introduction of moisture-laden outdoor air. Horizon also helps prevent risks associated with buildings operating at a negative air pressure condition.

Horizon is ideal for commercial buildings with high or fluctuating ventilation rates that require conditioned outdoor air to maintain comfort and/or support the performance of other building systems.

The Importance of Low Dew-Point Design

Your building contains recirculated and potentially contaminated air. Horizon helps address this issue by diluting recirculated indoor air with fresh outdoor air. Horizon also simultaneously dehumidifies that air to eliminate excess moisture, preventing discomfort and the health risks associated with mold and microbial growth. Trane's low dew-point design for the implementation of Horizon DOAS means we manage this need with an extraordinary level of effectiveness.

Reducing Energy Use

In keeping with Trane's mission to reduce the energy intensity of the world, Horizon DOAS is designed to supply conditioned outdoor air with as little energy as possible. In fact, our Integrated Seasonal Moisture Removal Efficiency (ISMRE) rating exceeds the minimum requirement from ASHRAE® 90.1, as rated by AHRI 920.

Customized to Fit

Each Horizon Dedicated Outdoor Air System is built to suit your building's needs.



Horizon is available in multiple system applications:

- Water source heat pumps
- Air source heat pumps
- Direct expansion
- Chilled water



Horizon is designed to integrate with a variety of system types, including:

- Constant Air Volume (CAV)
- Variable Air Volume (VAV)
- Variable Refrigerant Flow (VRF)

Horizon Features Include:

- Multiple filtration solutions — up to 6" depths (MERV 8-14)
- Antimicrobial UV lights
- Sanitary stainless-steel interior
- Energy recovery for maximum efficiency
- Variable-speed compressors for increased efficiency and longer life
- Double-wall insulation for efficiency and enhanced acoustical performance
- Direct drive plenum fan for better air control

Trane Horizon Outdoor Air Units

Model	Max Airflow (CFM)	Tonnage
OAB	3,000	3 – 9
OAD	8,000	10 – 20
OAG	7,500	10 – 30
OAK	9,000	12 – 30
OAN	25,000	30 – 80

To learn more about how Horizon[®] DOAS can help your building, visit trane.com/horizon or contact your Trane account manager.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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