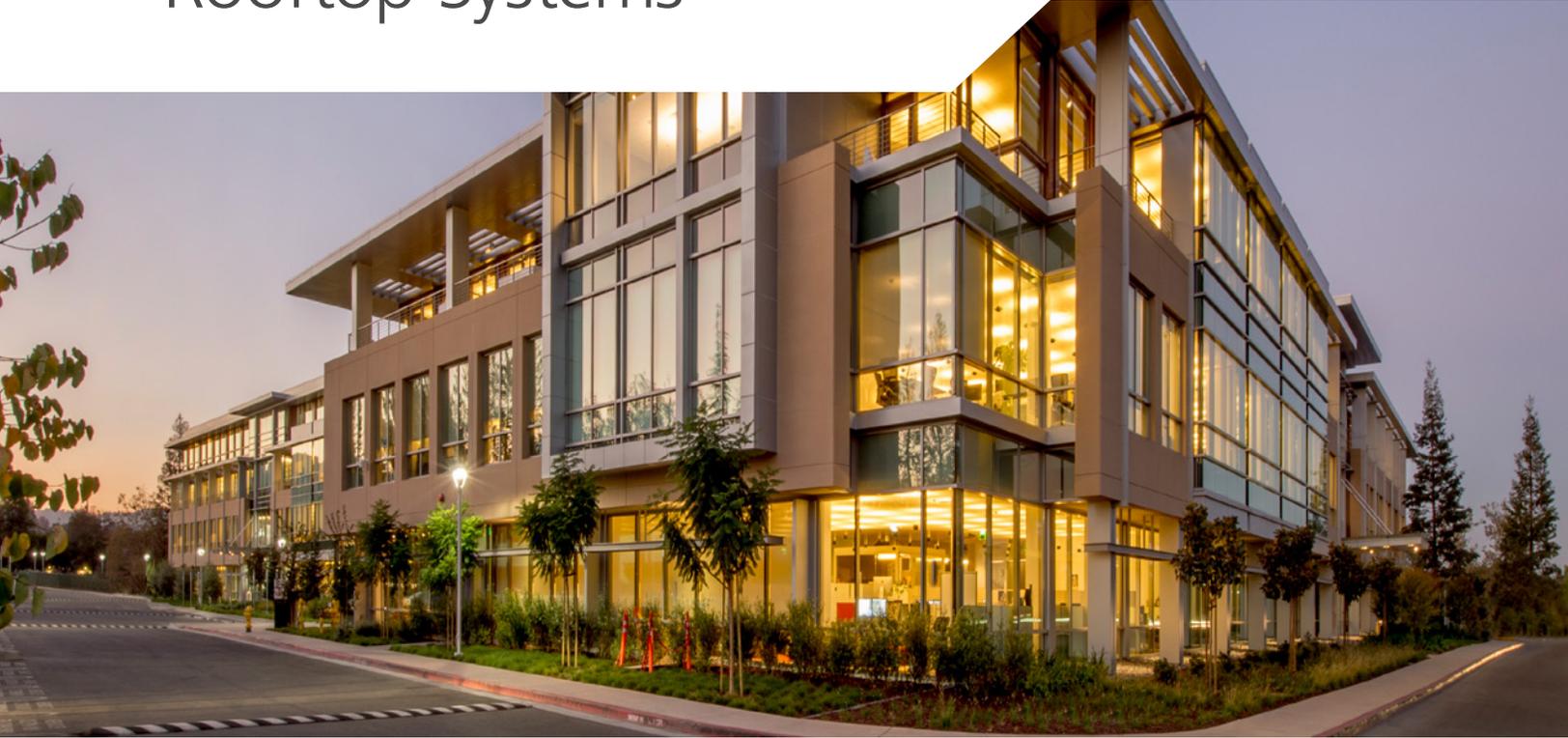




Maverick® II Commercial Rooftop Systems



15 to 75 tons

Ideal for a variety of applications



System performance and reliability make Maverick II commercial packaged rooftop systems the ideal solution for new, retrofit or replacement applications on one to three-story buildings. Available in capacities from 15 to 70 tons, they combine the lower installation costs and interior space savings of a roof-mounted system with the operating and maintenance efficiencies of central heating and cooling systems.

Applications range from offices and schools to libraries and strip malls. Arriving at your job site as a complete package, Maverick II commercial rooftop systems maximize your design and installed cost savings. They also can add to your building's profit margins year after year with efficient, reliable performance.

Durable and Affordable



Maverick II rooftop systems are ideal for 100% dedicated outdoor air systems (DOAS). Units can be equipped with modulating hot gas reheat to increase occupant comfort and avoid over-cooling and units can incorporate an optional energy recovery wheel that can drastically improve operational costs. Also available is a 100° temperature-rise furnace for unit operation in cold-weather climates.



Modulating Hot Gas Reheat



Energy Recovery Wheel



Gas Furnace Tubes

Easy Maintenance and Service



Easy access to mechanical components, which promotes routine maintenance and can reduce service costs.

Hinged access doors with quarter-turn latches on both sides of the unit put all components within easy reach for maintenance and service.

Two-circuit refrigeration design for high reliability.

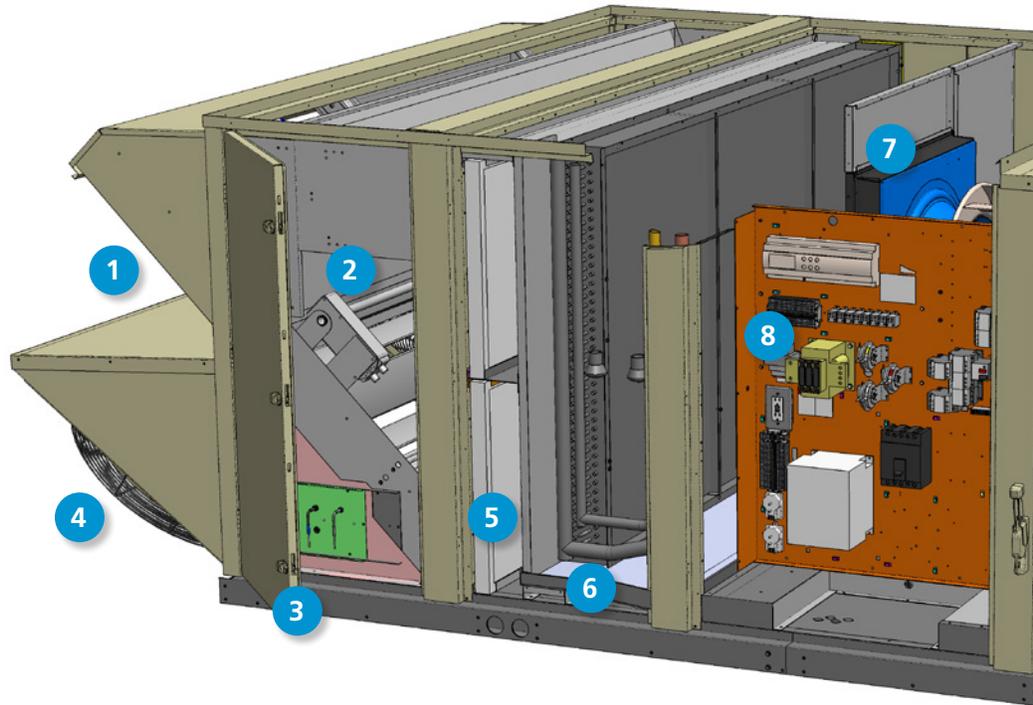
Standard low-leak dampers for superior resistance to air leakage and reduced energy costs.

Scroll compressors for efficient cooling operation and dependability.

Stainless steel, double-sloped drain pans per ASHRAE Standard 62.1-2004 for good indoor air quality.



Unique Features and Options



[1] Economizer

- CO₂ control for building IAQ
- DCV control for efficient operation when conditioning outdoor air

[2] Low Leak Outside Air Dampers

- 4 cfm/ft² to meet ASHRAE Standard 90.1-2004
- Double-wall blades
- Blade edge and jamb seals

[3] Hinged Access Doors

- On both sides of unit for easy access to all components
- Easy-open, quarter-turn latches
- Double-wall construction protects insulation during maintenance

[4] Exhaust Fans with Building Pressure Control

- Provide better building operations, higher customer satisfaction

[5] 2"/4" Combination Filter Track

- Provides more flexibility to meet building filtration requirements
- 2" MERV 6 filters shipped with unit, owner preference thereafter

[6] Double-Sloped Drain Pan

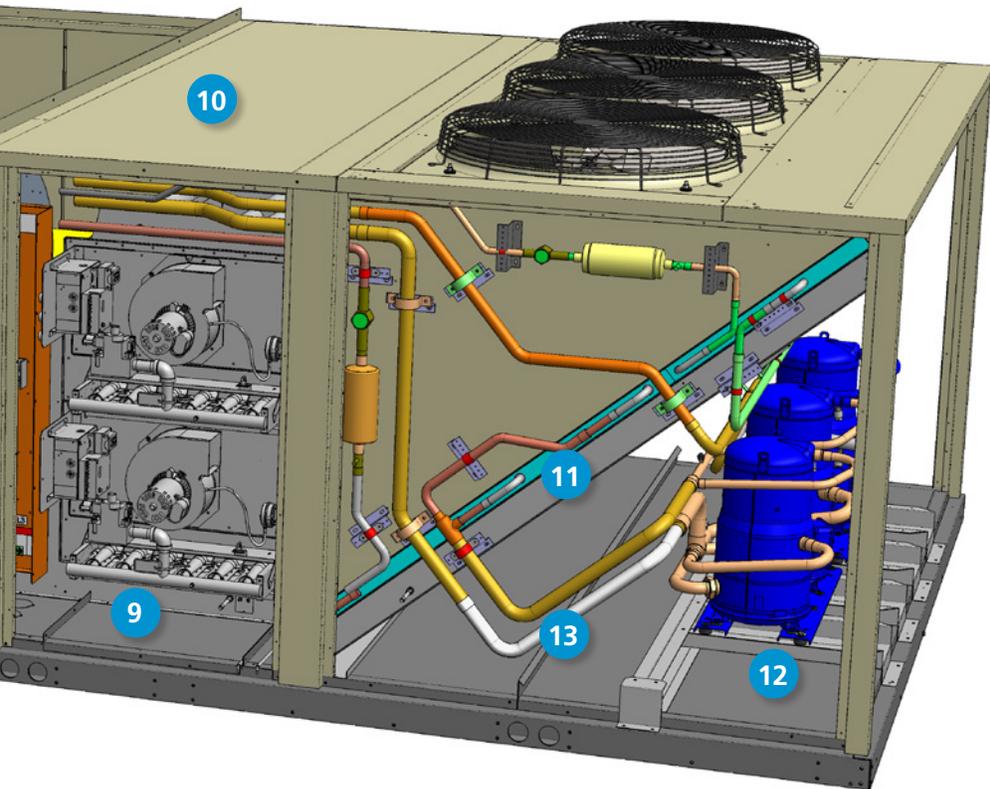
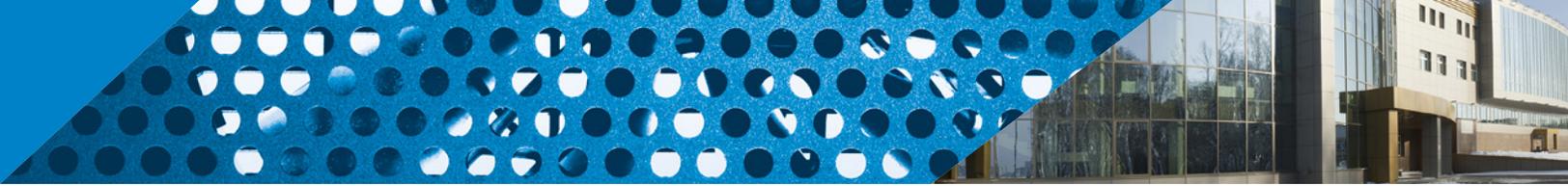
- Prevents corrosion
- Avoids standing water for high IAQ

[7] Airfoil Plenum Fan

- Energy efficient and quiet
- 1" seismic spring isolators for superior vibration control
- Class II construction
- Premium efficiency motor is standard

[8] MicroTech® III Unit Controller

- Open Choices™ feature provides interoperability with BACnet® or LonMark® certified communications for easy integration into your building automation system of choice.
- Outdoor air and humidity control logic maintains minimum fresh air intake and optimum humidity levels.



[9] Gas Heat

- Tubular heat exchanger for maximum heat transfer
- Four-stage capacity control
- Optional 4-to-1 modulation control on low heat
- Optional 8-to-1 modulation control on high heat

[10] Durable Construction

- Pre-painted exterior cabinet panels pass 750-hour ASTM B 117 Salt Spray Test for durability
- Weather-resistant construction with capped seams and sloped top panels
- Double-wall construction protects R-4 insulation and provides wipe-clean surface

[11] Microchannel Condenser Coils

- Proven technology from the automotive industry
- Suited for R-410A
- All aluminum design
- No corrosion between fins, tubes, and header

[12] Scroll Compressors

- Provide maximum dependability, efficiency and quiet operation
- Five stages of capacity control for efficient DAT control
- Optional compressor isolation valves

[13] R410A Refrigerant

- No ozone depletion potential or phase-out date
- 10.0 EER, meets ASHRAE 90.1-2007 energy requirements for the year 2010
- Dual refrigerant circuits provide redundancy for high unit reliability

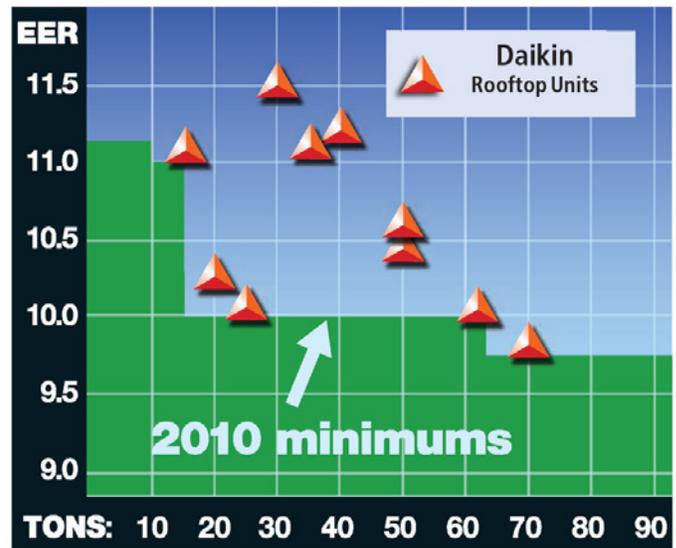
Energy Savings & Efficiency

Protecting the Environment & Your Investment

Maverick II rooftop systems are designed with energy savings and efficiency in mind. All use HFC-410A (R-410A) – a nonozone-depleting refrigerant with no phase-out concerns. And all meet the requirements of ASHRAE 90.1 – 2007 Energy Standard for the year 2010. Many exceed this goal by as much as 15% (see chart below). Maverick II units over 20 tons provide five stages of capacity control—utilizing lower-horsepower compressor motors under part-load conditions. The result can be considerable energy savings (since most rooftop systems operate at full load only 3% of the time).

LEED® credits

Maverick II rooftop units utilize microchannel condensers, which require a charge of only 1.0 lb. of R-410A refrigerant or less per ton of cooling. This can earn you an extra LEED credit for Energy and Atmosphere in LEED for New Construction Version 2.2 (Credit EAc4 in LEED-NC v2.2).



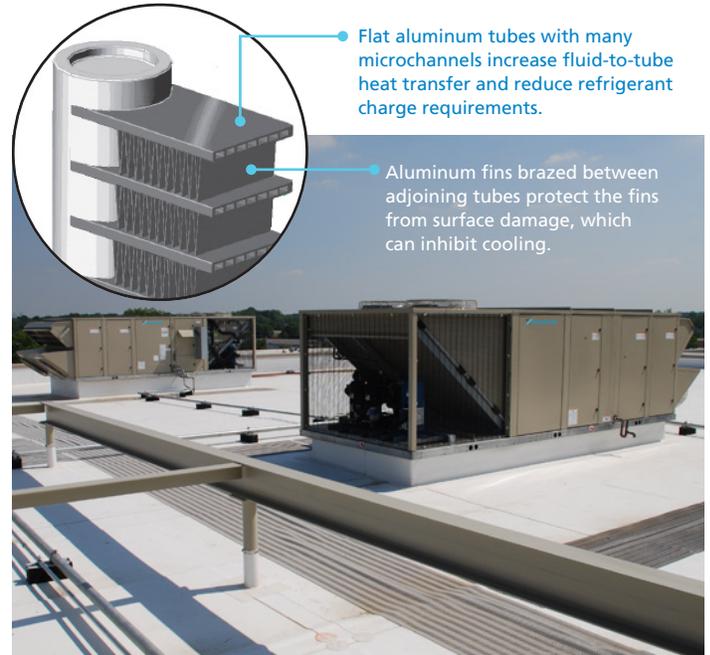
Maverick II rooftop systems are available with EERs that exceed ASHRAE 90.1-2007 requirements for the year 2010, which are approximately 6% more efficient than ASHRAE 90.1-2004 requirements.



All Maverick II rooftop units are equipped with all-aluminum microchannel condenser coils, which are constructed of the following items, oven-brazed together:

- Extruded flat tubes with many small flow channels arranged in a two-bypass configuration. These tubes provide better fluid-to-tube heat transfer than traditional round tubes and more heat transfer per square foot than traditional coils. They also require much less refrigerant charge per ton of cooling.
- Aluminum fins brazed between the adjoining tubes. This arrangement protects the fins from the surface damage that is common in traditional coil arrangements which can inhibit cooling performance and is difficult to comb out.

This all-aluminum construction eliminates galvanic corrosion (which occurs when dissimilar metals, such as copper and aluminum, are in contact with each other). As a result, all-aluminum condensers are more resistant to corrosion.



Make it a complete system for optimum system performance and reliability

1 Choose a Maverick II for Stand-Alone or 100% OA Applications



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2 For 100% OA Applications - Choose Terminal Units



Daikin VRVs with cassettes



VAVs



SmartSource® high efficiency water source heat pumps



Unit ventilators



Fan coil units

The industry leader in environmental solutions

Daikin Applied is committed to sustainable practices as part of our corporate culture. We believe it is the right thing to do for our customers, our community, the environment and ourselves. As the global HVAC leader, Daikin Applied has a unique opportunity to make a difference in sustainable initiatives and continue to lead the industry in environmental solutions.



To learn more about Trailblazer air cooler chillers, contact your local Daikin Applied sales office or visit DaikinApplied.com.

