



Maverick™ II
Commercial Rooftop Systems
15 to 75 tons





Maverick II Commercial Rooftop Systems

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.



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



Durable and Affordable

Fully Featured

Maverick II commercial rooftop systems are competitively priced, yet provide features that set them apart from systems offered by other manufacturers. These include:

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

Scroll compressors for efficient cooling operation and dependability.

Two-circuit refrigeration design for high reliability.

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

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



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

Easy Maintenance & Service

Hinged Access Doors

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



Protecting the Environment & Your Investment

Energy Savings & Efficiency

Maverick II rooftop systems are designed with energy savings and efficiency in mind. All use HFC-410A (R-410A) – a non-ozone-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 in any environment, including seacoast applications.



Unique Features and Options

Maverick II Commercial Rooftop Systems

Economizer

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

Low Leak Outside Air Dampers

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

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

Exhaust Fans with Building Pressure Control

- Provide better building operations, higher customer satisfaction

2" / 4" Combination Filter Track

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

Double-Sloped Drain Pan

- Prevents corrosion
- Avoids standing water for high IAQ

Airfoil Plenum Fan

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

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.

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

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

Microchannel Condenser Coils

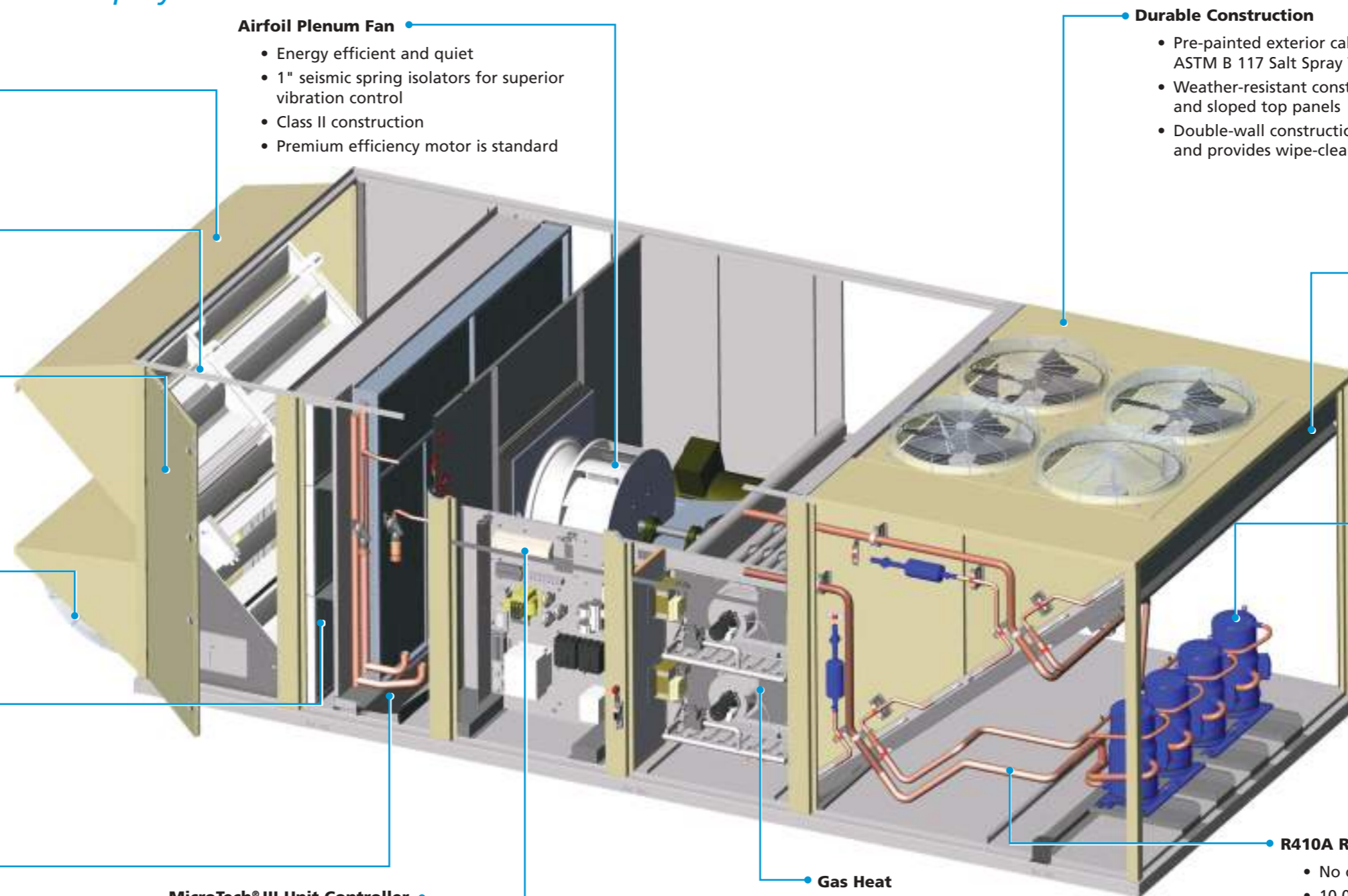
- Proven technology from the automotive industry
- Suited for R-410A
- All aluminum design
- No corrosion between fins, tubes and header

Scroll Compressors

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

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





Make it a Complete System for Optimum System Performance and Reliability

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



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STEP 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