PRODUCT CATALOG

CAT-262

AUGUST 2025

MAVERICK® II MPS 030-050

PACKAGED ROOFTOP SYSTEMS WITH LOW-GWP R-32 REFRIGERANT

R32 LOW-GWP REFRIGERANT

- MODEL MPS II
- 30 TO 50 TONS COOLING (UP TO 20,000 CFM)
- R-32 REFRIGERANT

LEARN MORE AT **DAIKINAPPLIED.COM**

MAXIMIZE EFFICIENCY **MINIMIZE COSTS**

Maverick® II commercial packaged rooftop systems deliver a new standard in efficiency and versatility. Engineered with low-GWP (global warming potential) R-32 refrigerant, this advanced rooftop solution is ideal for new construction, retrofits, or replacements on one- to three-story buildings such as offices, schools, libraries and strip malls. Delivered as a complete packaged system, Maverick II simplifies installation and enhances cost savings with a variety of factory-installed options, including energy recovery, modulating hot gas reheat, and advanced controls to optimize performance from day one through the unit's lifespan.

Maverick II rooftop systems are a top choice for 100% dedicated outdoor air systems (DOAS), offering features like modulating hot gas reheat to optimize occupant comfort and an optional energy recovery wheel to lower operational costs. For cold climates, a 100° temperature-rise furnace ensures reliable performance. With new R-32 refrigerant technology, these systems prioritize sustainability by reducing environmental impact and enhancing efficiency. Designed to deliver long-term cost savings, Maverick II units provide dependable performance that boosts energy savings year after year.

PERFORMANCE

- Heating and Cooling
- 30-50 Tons
- Up to 20,000 cfm
- R-32 refrigerant
- 10.0+ EER

FEATURES

- EER meets ASHRAE 90.1 2016
- Gas heat option with staged or modulating control
- Economizer with 80% to 100% exhaust
- Building pressure control with a VFD

LINKS:

- Installation & Operation Manual
- Quick Start Guide
- Engineering Data

CERTIFICATIONS

ISO 9001 CERTIFIED · U.S. GREEN BUILDING COUNCIL LEED USGBC · CRN REGISTERED · ETL LISTED c US Intertek · AHRI CERTIFIED www.ahridirectory.org Unitary Large HP AHRI Standard 340/360 · ASHRAE 90.1 Standard

TABLE OF CONTENTS

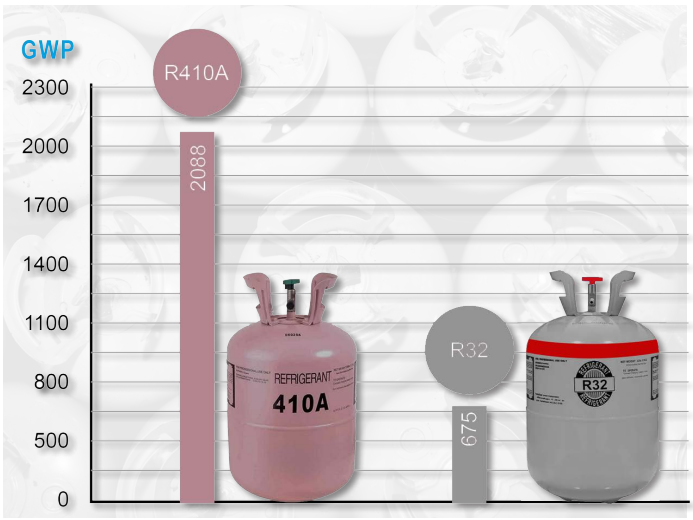
Overview 2
Advantages/Technologies 4
Features & Benefits 6
Vertical Markets/Applications 7
Rooftop System Solutions 8
Dakin360 Maintain & Repair 9
Dakin360 Parts & Supplies 10
Dakin360 Rental Solutions 11
Complete HVAC System Solutions 12

Environmentally Friendly

Maverick II packaged rooftop systems are designed for environmental sustainability and energy efficiency. Utilizing low-GWP R-32 refrigerant or non-ozone-depleting HFC-410A, it meets and often exceeds ASHRAE 90.1 – 2007 Energy Standards for 2010 by up to 15%.

Its five-stage capacity control system optimizes efficiency by using lower-horsepower compressor motors during part-load conditions. With most rooftop systems operating at full load only 3% of the time, Maverick II delivers substantial energy savings and supports businesses in meeting their sustainability goals.

Low GWP Refrigerant

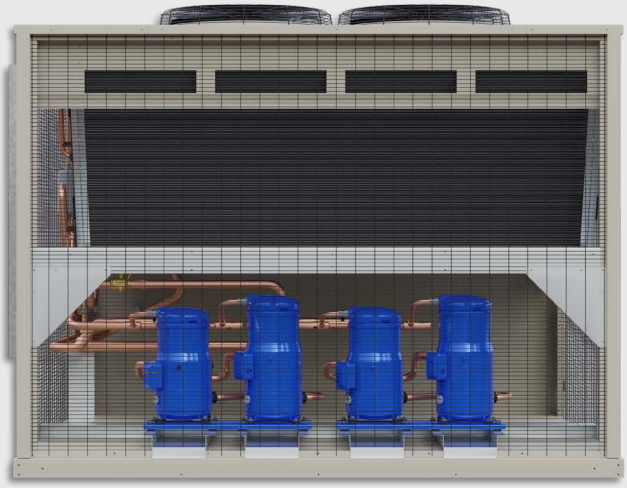


With a GWP of 675, R-32 contributes less to global warming potential compared to other refrigerants like R-410A. Because of R-32's excellent thermodynamic performance characteristics, an R-32 system could have up to 40% less charge than R-410A in certain applications, meaning you could reduce refrigerant usage in the equipment and potentially also reduce quantities leaking to the environment.

Being a pure, single-component refrigerant, R-32 can't lose its composition like a blended refrigerant and is well suited to retain its quality over time. It can be topped off and recharged in the field in both liquid and gas phases; because the composition doesn't change, it's easy to clean and reuse on site. R-32 can be reclaimed and recycled with a simple cleaning process, as compared to blends with less stable HFOs that must be distilled to their pure compounds and then remixed.

Industry-Leading Performance

Designed for superior efficiency and performance in commercial HVAC applications, Maverick II units feature advanced technology, allowing for precise temperature control and energy savings, which can lead to reduced operational costs. Maverick II boasts a compact design, enabling easy installation and integration into existing systems and its robust construction ensures reliability, even in varying environmental conditions. Additionally, these units produce low sound levels that enhance comfort for building occupants. With a range of configurable options, including energy recovery, electric heat, filtration and more, Maverick II can be tailored to meet specific building needs, making it a top choice for energy-efficiency, green building initiatives and climate control solutions.



APPLICATION SOLUTIONS
THAT REDUCE EXPENSES AND ADD TO YOUR BOTTOM LINE

Energy Recovery Wheel

An energy recovery wheel plays a crucial role in enhancing Maverick II's energy efficiency by reclaiming exhaust stream waste energy and bringing in fresh air to reduce overall operational costs, while meeting environmental initiatives to lower emissions.

- **Recovers energy** from exhaust air to reduce system load and lower operational costs.
- **Improves IAQ** by bringing in fresh air while managing temperature and humidity conditions.
- **Reduces environmental impact** of greenhouse gas emissions by lowering energy usage.

Dual Refrigerant Circuits

Maverick II incorporates dual refrigerant circuits which deliver efficient capacity control to satisfy space conditions that leads to exceptional temperature/humidity control and lower operating costs. Each refrigerant circuit is furnished with high efficiency scroll compressors to provide superior efficiency and redundancy.

100% DOAS

Maverick II rooftop systems are designed to be both durable and cost-effective, making them an excellent choice for 100% dedicated outdoor air systems (DOAS). Equipped with features like modulating hot gas reheat, these units enhance occupant comfort by preventing over-cooling, while an optional energy recovery wheel significantly reduces operational costs. For cold-weather climates, an available 100° temperature-rise furnace ensures reliable performance and efficient operation even in the harshest conditions.

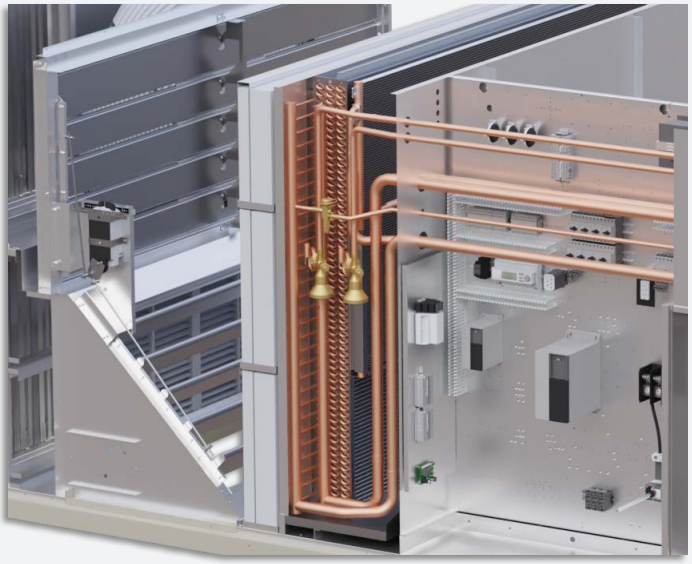
Modulating Hot Gas Reheat

Modulating hot gas reheat in Maverick II ensures precise temperature and humidity control, preventing over-cooling and reducing strain on the system. This feature not only enhances occupant comfort but also extends the unit's lifespan by minimizing wear and tear, keeping maintenance costs low.

Precise Temperature and Humidity Control: Modulating hot gas reheat ensures optimal comfort by preventing over-cooling and maintaining ideal indoor conditions.

Enhanced Durability: By minimizing strain on the system, this feature extends the Maverick II's lifespan and reduces wear and tear.

Cost-Efficient Operation: Optimized energy use and reduced maintenance needs make the system more affordable over its lifetime.



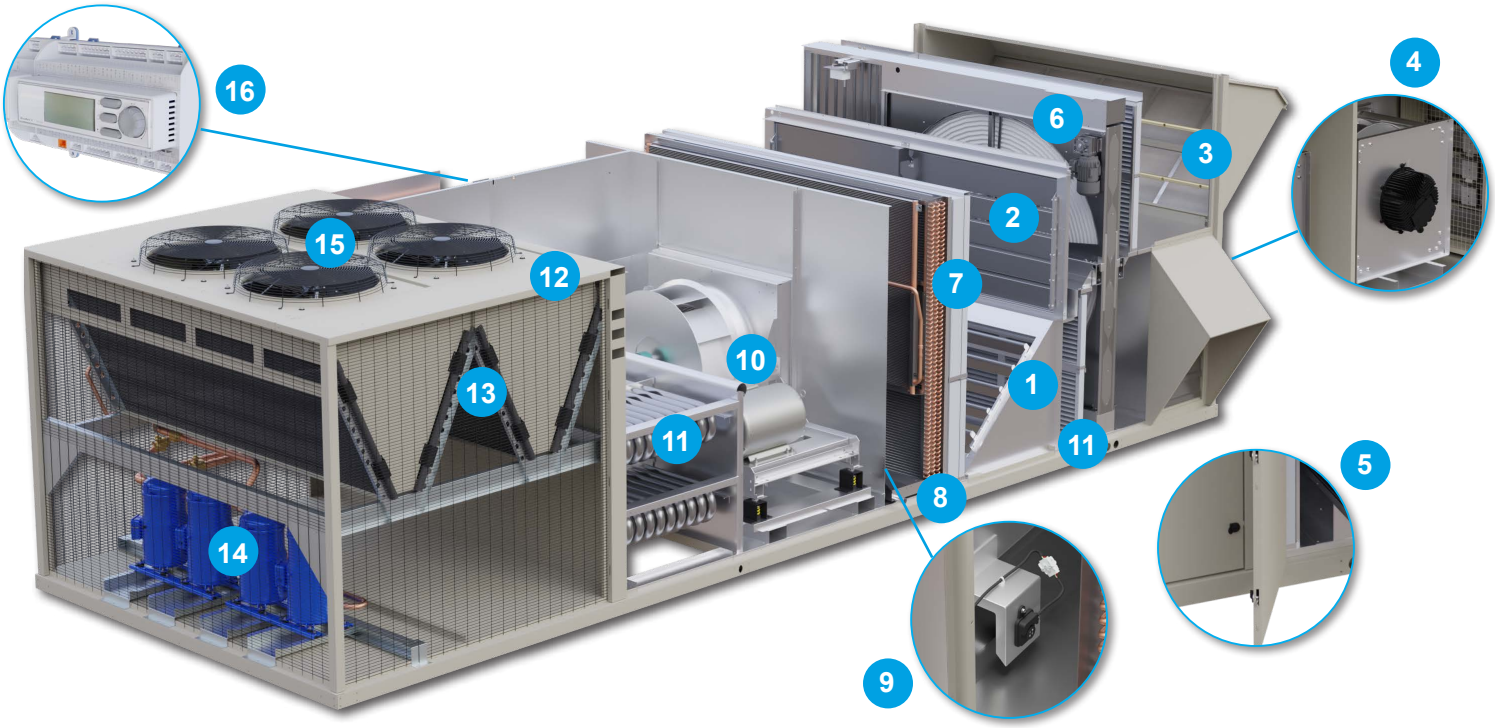
ECM Exhaust Fans

Maverick II comes equipped with electronically commutated motor (ECM) exhaust fans that are an advanced upgrade from traditional motor fan technology. Maverick II exhaust fan motors are designed to be highly efficient by automatically adjusting their speed to meet the exact needs of the system, using less energy and reducing utility costs. Unlike traditional motors, ECM motors generate less heat and have fewer moving parts, which means they experience less wear and require less frequent maintenance. This makes Maverick® II not only more reliable over time, but also easier and faster to service.

Gas, Hot Water or Electric Heat

Maverick II systems provide the flexibility to choose between gas, heat, or electric heat which allows customization to match specific operational needs and applications. These options provide additional municipality cost savings by providing alternative, cost-effective, reliable and efficient heating solutions that align with company, local and state sustainability goals and regulatory requirements.

FEATURES & BENEFITS



1 **ECONOMIZER:** Controls CO2 levels for improved IAQ and utilizes demand-controlled ventilation for more efficient outdoor air conditioning.

2 **LOW-LEAK AIR DAMPERS:** Double-wall blades with edge and jamb seals ensure enhanced durability and optimal performance.

3 **OUTDOOR AIR MONITOR:** Improves energy efficiency, IAQ and system performance through real-time monitoring and integration with BMS.

4 **ECM EXHAUST FANS:** Variable speed, high efficiency motors drastically lower energy consumption during part-load conditions.

5 **HINGED ACCESS DOORS:** Quarter-turn latches offer easy access; double-wall construction.

6 **ENERGY RECOVERY WHEEL:** Enhances energy savings in ventilation systems by recovering and reusing energy from exhaust air.

7 **COMBINATION FILTER TRACK:** Flexible 2" or 4" filter options, standard 2" MERV 6 filters.

8 **DOUBLE-SLOPED DRAIN PAN:** Prevents corrosion, eliminates standing water to improve IAQ.

9 **A2L MITIGATION SENSOR:** Monitors concentration of refrigerants in the air and can trigger alarms or safety protocols.

10 **ALUMINUM AIRFOIL PLENUM FAN:** Premium, energy efficiency fan motor with vibration control isolators for quiet operation.

11 **GAS HEAT:** Tubular heat exchanger, four-stage capacity control; optional 4-to-1 and 8-to-1 modulation for efficient heat management.

12 **DURABLE CONSTRUCTION:** Pre-painted, weather-resistant cabinet, double-wall panels with capped seams and sloped top.

13 **MICROCHANNEL CONDENSER COILS:** Non-corrosive all-aluminum fins, tubes and headers enhance heat transfer, durability and reliability.

14 **SCROLL COMPRESSORS:** Alternate operation based on run hours that adjust to cooling demands; extends compressor life and reduces energy consumption.

15 **CONDENSING FANS:** Stamped propeller fans deliver high airflow rates with reduced operating noise levels for sound-sensitive applications.

16 **MICROTECH® III CONTROLLER:** Provides seamless unit controls integration with BACnet® or LonMark® certified systems for easy building automation.

17 **SITELINE® BUILDING CONTROLS:** Real-time data streams for benchmarking performance, monitoring systems and implementing remote diagnostics/controls.

18 **R-32 REFRIGERANT:** Low global warming potential (GWP) with improved operating energy efficiencies and cost-saving performance.

EDUCATION

Maverick II's rooftop design allows for space-saving installation, which can be critical in educational settings where space is limited. These rooftop units minimize distractions and can be configured to provide zoning control, allowing different areas of a school to maintain different temperatures according to occupancy and usage.

OFFICE BUILDINGS

MicroTech sophisticated control systems allow Maverick II to deliver precise temperature management and scheduling. This can be integrated with building management systems (BMS) to optimize energy use and improve comfort levels throughout the building. Enhanced filtration options and ventilation capabilities add to improved IAQ for occupants.

LIBRARIES

Libraries house valuable books and materials that can be sensitive to humidity and temperature fluctuations. Maverick II units can help maintain optimal indoor air quality by providing effective ventilation control that reduces the risk of mold and preserves the integrity of books and other materials.

STRIP MALLS

Maverick II rooftop installation helps save valuable retail ground space that is crucial in strip mall environments where property is limited. It's modular design allows for HVAC system scalability to accommodate new spaces or changes in occupancy.

ROOFTOP SYSTEMS SOLUTIONS

DAIKIN

NAME/MODEL:

REBEL®
DPS
Commercial
Cooling/Heat Pump

3-31 ton

REBEL APPLIED®
DCSA
Commercial/Applied
Condensing Unit

20-75 ton

MAVERICK® II
MPS
Commercial
Cooling/Heating

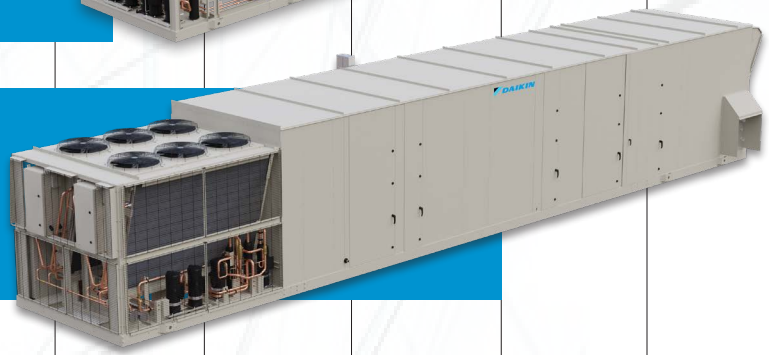
30-50 ton

REBEL APPLIED®
DHSA
Commercial/Applied
Cooling/Heat Pump

30-68 ton

REBEL APPLIED®
DPSA
Applied/Industrial
Cooling/Heating

20-120 ton



Tons 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

LEARN MORE AT

DAIKINAPPLIED/PRODUCTS/ROOFTOP-SYSTEMS.COM

DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

MAINTAIN AND REPAIR

PROTECTIVE MAINTENANCE SERVICES

LEARN MORE

REPAIR SERVICES

Breakdowns happen and when your equipment has an issue, time is of the essence. Call us at 800-432-1342 to get Daikin Service professionals dispatched quickly and minimize downtime. Your local team is backed by nearly 100 years of experience to alleviate undue stress in your operations.

- **24/7 Emergency Service**
- **System Repairs & Assessments**
  (Ancillary Equipment: Boilers, Cooling Towers)
- **Equipment Diagnostics**
- **Technical Troubleshooting**
- **Building Automation & Controls**
- **OEM & Generic Parts/Supply**
- **All Equipment Types & Brands**

PLANNED MAINTENANCE SERVICES

Daikin Applied's service technicians can perform all of the vital maintenance your system needs to ensure your equipment is running at peak efficiency. From proper cleaning to software upgrades and necessary maintenance, our techs will maximize your system to help extend the life of your equipment.

- **Regularly Scheduled Maintenance**
- **Seasonal Startup & Shutdown**
- **System Diagnostics**
- **Condenser Cleaning**
- **Air Filters**
- **On-site System Inspections**

PREDICTIVE SERVICES

Predictive maintenance services anticipate failures before they happen to mitigate the risk of catastrophic failure. For those who have in-house maintenance capabilities, Daikin Service can also guide your team and be on standby for more complex technical needs with predictive maintenance.

- **Oil & Refrigerant Analysis**
- **Vibration Analysis**
- **System Diagnostics**
- **Eddy Current Testing**
- **Infrared Analysis**
- **Combustion Analysis**
- **IAQ Assessments**
- **Laser Alignments**
- **Bearing Analysis**

PROACTIVE SERVICES

With proactive maintenance services, we support you with proven experts, offerings and processes to ensure customers get the help they need from a trusted advisor.

- **Building Operations Review**
- **Contingency Planning**

DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

PARTS & SUPPLIES

OEM AND GENERIC AFTERMARKET SOLUTIONS

LEARN MORE

LOCAL PARTS INVENTORY. LOCAL EXPERTISE.

When you need OEM or generic parts to repair your HVAC system, you need them quickly. Daikin Service has an expansive inventory and a centralized distribution center to get the right parts to you faster than ever before. To mitigate downtime, we have 80 locations (and counting) across North America to help you take care of your critical parts demand.

- ONE-STOP SHOP FOR ALL OEM & GENERIC PARTS
- NATIONAL LOCATION/DISTRIBUTION NETWORK
- CENTRALIZED DISTRIBUTION
- FACTORY-AUTHORIZED REPLACEMENT PARTS
- SAME-DAY SHIPPING ON MOST ORDERS
- EXPERT SUPPORT
- RELIABLE PERFORMANCE
- WALK-IN STORE LOCATIONS
- EXTENDED COMPONENT WARRANTIES (VFDS, COMPRESSORS, MOTORS)

DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

RENTAL SOLUTIONS

KEEPING YOU UP AND RUNNING

LEARN MORE

CHILLERS | AIR CONDITIONERS | DEHUMIDIFIERS | HEATING | POWER

EMERGENCY RENTALS

When your equipment fails, limiting downtime is mission critical. Daikin Applied provides quick delivery and installation of reliable rental products to help you weather the outage. We're here to help get you back up and running, and can provide a turnkey solution.

- **Industry-leading efficiency and proven technology**
- **24-hour turnaround on available inventory**
- **8-hour average set up with on-site experts**
- **Comprehensive package, including pumps, flexible water piping connection and electrical hookups**

EQUIPMENT FOR PLANNED SITUATIONS

Forming a contingency plan in the event of an outage can help you quickly get operations back to normal and limit financial loss, and help you breathe easier when the unexpected happens. Selecting the right-sized equipment is just one part of the process. The best contingency plans start by assessing and understanding your financial risk, and then using this information to drive the rest of your plan. Our Rental Solutions experts can specify the supplemental cooling system required to support any situation you're experiencing.

- **System maintenance**
- **Building expansion**
- **Server room heat generation**
- **Seasonal/staff heat load swings**
- **Contingency plans**

SUPPLEMENTAL CAPACITY

When the demand of your facility or process exceeds your current system's capacity because of record-high temperatures or changes to cooling requirements, Daikin temporary rentals can be used to increase your heating or cooling output. By eliminating the need to purchase additional equipment that might be only used part of the year, you save on capital expenditures.

STANDBY

Standby for critical applications and processes is another efficient use for temporary rental equipment. A temporary system is sometimes used to back up manufacturing and chemical processes, or when a hospital's required system redundancy has been reduced.

COMPLETE HVAC SYSTEM SOLUTIONS

SELF-CONTAINED | ROOFTOPS | COILS | CONDENSING UNITS
AIR HANDLERS | WATER-COOLED CHILLERS | AIR-COOLED CHILLERS
MODULAR CENTRAL PLANTS | SITELINE BUILDING CONTROLS
UNIT HEATERS | FAN COILS | WATER SOURCE HEAT PUMPS |
VARIABLE AIR VOLUME UNITS

13600 INDUSTRIAL PARK BLVD. | MINNEAPOLIS, MN 55441
1-800-432-1342 | 763-553-5330

LEARN MORE AT
DAIKINAPPLIED.COM

DAIKIN