



Heating and Cooling



PremiSys® DEDICATED OUTDOOR AIR SYSTEM



PRODUCT OVERVIEW

The PremiSys series of rooftop ventilation products is a premier solution for conditioning outdoor air for commercial buildings. Designed to handle 100% outdoor air with optional energy recovery, PremiSys products offer premium features ideal for handling ventilation air in variable refrigerant flow (VRF) applications.

The PremiSys models MP and MPE (with energy recovery) are pre-engineered to provide semi-custom flexibility while maintaining the quality, consistency, and value of a standardized product.

MODEL MP(E) FEATURES

- ▶ Direct-drive plenum fans with factory-mounted variable frequency drives (VFD) to handle up to 18,000 CFM and 3-inch wg external static pressure
- ▶ 2-inch double-wall construction
- ▶ Downturn intake hood with 2-inch aluminum mesh filters
- ▶ Microprocessor controls for stand-alone functionality or communication through Mitsubishi Electric's M-Net, BACnet®, LonWorks®, or Modbus® protocols
- ▶ Multiple filter options including MERV 8, MERV 13, or a combination MERV 8/13
- ▶ Optional accessories include: Exterior cabinet coatings, smoke detectors, and condenser hail guards

HEATING OPTIONS

- ▶ Indirect gas-fired furnace
 - 409 stainless steel heat exchanger construction
 - Modulating turndown control
 - Power-vented
- ▶ Electric Heating
 - SCR capacity control
 - Optional single-point power connection
- ▶ Hot water coil
- ▶ Air-Sourced Heat Pump (ASHP)
 - Low ambient operation down to 10°F
 - Secondary heating options (Gas, Electric, Hot Water)
 - Built in Defrost mode

COOLING OPTIONS

- ▶ Integral air-cooled packaged DX
 - R410a refrigerant
 - Modulating hot gas reheat
 - Variable capacity compressors
 - 5-7 tons of cooling capacity
 - Service/charging valves
 - Liquid line dryer
 - Sight glass
 - Air-Sourced Heat Pump option
- ▶ Air-Sourced Heat Pump (ASHP)
 - 5-22 tons capacity
 - Modulating hot gas reheat

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| Unit Size | Nominal Tonnage (tons) | Height | Width | Length | Intake | Condensing Section | Nominal Weight (lbs) | Outdoor Intake | Supply Discharge | Exhaust Discharge |
|-----------|------------------------|--------|-------|------------------------------------|--------|--------------------|----------------------|----------------|------------------|-------------------|
| MP-1 | 5–15 | 59 | 53 | 99 | 22 | 30 | 2,700 | End | Bottom or Side | Side |
| MP-2 | 15–30 | 73 | 68 | 109 | 27 | 30 | 4,500 | | | |
| MP-4 | 20–43 | 90 | 68 | 156 | 22/27 | 30 | 6,400 | | | |
| MP-5 | 30–70 | 99.5 | 96 | 185 | 52.5 | N/A ^a | 7,950 | | | |
| MPE-1 | 5–15 | 59 | 53 | 150 | 22 | 30 | 3,400 | End | Bottom or Side | Side |
| MPE-2 | 15–30 | 73 | 68 | 163 | 27 | 30 | 5,100 | | | |
| MPE-4 | 20–43 | 90 | 68 | 224 | 22/27 | 30 | 8,300 | | | |
| MPE-5 | 30–70 | 99.5 | 96 | 263 ^b /307 ^c | 47 | N/A ^a | 10,450 | | | |

^aCondensing Section mounted on top of unit

^bLength with bottom return

^cLength with side return