



# ZVS-MPU

## Modular Packaged Unit

Packaged AC & heating unit for 100% outdoor air applications



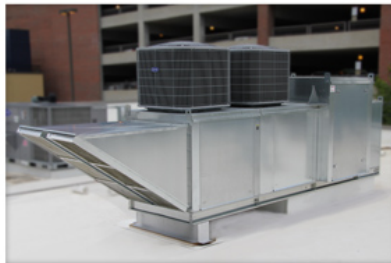
## Sensible Cooling + Efficient Heating

The Modular Packaged Unit (MPU) is designed to be a factory packaged air conditioning and heating unit for 100% Outdoor Air (OA) applications. Units are sized to operate between 360 to 600 cfm/ton of cooling, depending on climate.

### THE MOST EFFICIENT APPROACH TO MAKE-UP AIR



### Recent Installations



### Units Available

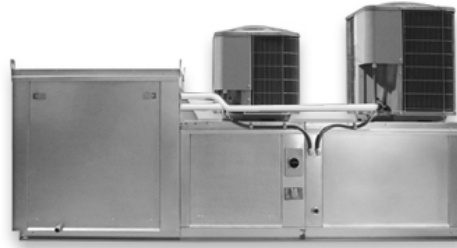
- ▶ Direct Fired Heat with Cooling Package
- ▶ Indirect Fired Heat with Cooling Package
- ▶ Electric Heat with Cooling Package
- ▶ Cooling Only Configurations
- ▶ Heat Pump Option - Ideal for small heating needs and where gas is not available
- ▶ AC Option - Sized for 150-300 CFM/ton of Cooling

### Standard Features & Benefits

- ▶ High Efficiency Nominal 14 SEER Rating Condensers
- ▶ Integral Cooling Staged Thermostat
- ▶ Multiple Stage cooling for lower energy usage
- ▶ Pre-Piped and Charged Refrigeration Circuits
- ▶ Optimized for 100% OA for kitchen use
- ▶ Cooling requires no additional roof footprint
- ▶ Coils and Condensers sized to comfort cool make-up air
- ▶ R-410A Environmentally Friendly Refrigerant
- ▶ Thermal Expansion Valves and Filter/Dryer Kits
- ▶ External Equalization Lines for Thermal Expansion Valves
- ▶ Hard Start Relay Kits on the Condensers
- ▶ Condenser Disconnect Switch
- ▶ Vacuum Tested and Leak Checked Lineset/Coils
- ▶ Condenser Transformer Prewired
- ▶ Thermostat Prewired and Interlocked with Heater
- ▶ Integral Weather/Hail Guards

## Optimized for high efficiency...

The modular packaged cooling unit is optimized to work in conjunction with highly efficient make-up air delivery methods, such as perimeter supply plenums. The unit can either have a down or end discharge, and can be used with both electric and gas heat. All refrigerant is environmentally friendly R-410A and condensers have a nominal SEER rating of 14 for greater efficiency.



One benefit of this unit is the multiple cooling stages. Multiple cooling stages increase the efficiency by not using 100% of the cooling capacity when this is not needed, thus allowing lower energy usage. An internal make-up air cooling thermostat automatically energizes the first stage when cooling of the make-up air is required. The same thermostat has a built in adjustable differential to energize the second stage of cooling when required.

The condensers are top mounted on the make-up air unit to minimize roof space requirements, and are situated for optimal airflow and serviceability.

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## Certifications

This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

The MPU for Direct Fired Heaters, Electric Heaters, Indirect Fired Heaters and Untempered Units are ETL listed under file number 100746688COL-001 and comply with UL 1995 and CSA C22.2#236-05.

The MPU for Recirculating Direct Fired Heaters is ETL listed under file number 100746688COL-002 and complies with UL 1995.

