DIRECT FIRED MAKE-UP AIR UNIT MCV/MVV



DESIGNED TO SIMPLIFY INSTALLATION AND REDUCE MAINTENANCE COSTS

Direct Fired Make-Up Air Unit (MCV/MVV)

Modine Direct Fired Make-Up Air Units are ideal for applications that require 100% outside air. Direct fired units provide the best efficiency (100% thermal efficiency, 92% sensible). The make-up air is heated directly by the gas flame, eliminating the need for a heat exchanger and its associated efficiency losses. These units provide maximum application flexibility with input ratings up to 2,100,000 Btu/Hr and a wide range of airflow capability from as low as 800 CFM up to 14,000 CFM.

Models include

- MCV: Direct Fired, 100% outside air, constant speed fan
- MVV: Direct Fired, 100% outside air, variable speed fan (provides reduction from rated speed down to 35%)





DIRECT FIRED MAKE-UP AIR UNIT (MCV/MVV)

The MCV/MVV Series has been designed to provide value through best-in-class features to simplify installation and reduce maintenance costs.

Standard Features

- Standard neoprene vibration isolated blower and motor for quiet operation
- Auto-Velocity[™] profile system constantly and automatically adjusts a burner profile bypass damper to maintain proper burner air velocity for optimal combustion

Optional Features (Factory Installed)

- Motorized inlet damper (standard or low leak, power or spring return)
- · Galvanized interior double wall liners for ease of cleaning
- Side access filter options to ensure delivery of clean air
- Timed freeze protection
- Non-recirculating evaporative cooler with moisture sensor and water flow controller

Accessory Features (Field Installed)

- Motorized discharge damper (standard or low leak, power or spring return)
- Vibration isolation hangers (for suspended units) or feet (for base mounted units)
- Full unit perimeter roof curb with nailer for flat roof installation (insulated or non-insulated)

- Prewired 10 foot long power and control wiring harnesses provided in flexible conduit simplifies electrical connection
- Floor chase for wire routing to the space without having to drill holes in the unit floor
- Rubber-in-shear or spring isolated blower and motor
- Mild temperature inlet thermostat
- LonWorks or BACnet MS/TP compatible controls for maximum centralized unit control
- Hinged access doors for easy service access
- Inlet and/or burner pressure gauges to quickly identify pressure without a manometer
- Smoke detector
- Mechanical or digital timeclocks (7-day programmable)
- Remote monitoring panels
- Discharge diffusers (3-way or 4-way)

Airflow Range (CFM) Max Air Temp Rise (°F) Maximum MBH **Casing Size** Blower Size Max Supply Air (Digit 4) (Digits 5.6) Temp (°F) Min. Natural Gas **Propane Gas** Natural Gas **Propane Gas** Max. 08 800 2.200 130 95 239 185 1 120 10 1,400 3 500 130 95 346 270 120 2 12 2,400 3,500 130 95 375 375 120 3,200 8,000 130 938 3 15 95 907 120 9,500 4 18 5,000 130 95 1,428 1,077 120 5 20 5,500 14,000 130 95 2,100 1,587 120

PERFORMANCE CAPABILITIES

Maximum Btu/Hr based on Max CFM and temp rise (where possible) with -30°F entering air. Actual capability may vary with different job conditions. Please refer to our online Breeze® AccuSpec selection program with specific conditions.



To learn more, visit www.modinehvac.com or call 800-828-HEAT Follow us @ModineHVAC
See us at YouTube.com/ModineHVAC
www.facebook.com/ModineHVAC
www.linkedin.com/company/modinehvac

Modine Manufacturing Company 1500 DeKoven Avenue Racine, Wisconsin 53403-2552