Direct Fired Make-Up Air Unit (DCV/DVV)

Modine Commercial 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

- DCV: Direct Fired, 100% outside air, constant speed fan
- DVV: Direct Fired, 100% outside air, variable speed fan (provides reduction from rated speed down to 35%)
DIRECT FIRED MAKE-UP AIR UNIT (DCV/DVV)

The DCV/DVV 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
- 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

**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
- 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

**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)
- Smoke detector
- Mechanical or digital timeclocks (7-day programmable)
- Remote monitoring panels
- Discharge diffusers (3-way or 4-way)

**PERFORMANCE CAPABILITIES**

<table>
<thead>
<tr>
<th>Casing Size (Digit 4)</th>
<th>Blower Size (Digits 5,6)</th>
<th>Airflow Range (CFM)</th>
<th>Max Air Temp Rise (°F)</th>
<th>Maximum MBH</th>
<th>Max Supply Air Temp (°F)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Natural Gas</td>
<td>Propane Gas</td>
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<tr>
<td>1</td>
<td>08</td>
<td>800</td>
<td>2,200</td>
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<td>9,500</td>
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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.

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