Improved indoor air quality – Helps dilute airborne contaminants helping exhaust systems operate more efficiently.

Augment existing ventilation system – Unit can be designed to automatically modulate outdoor air volume from 20% to 100% to help meet ventilation requirements in cold weather and decrease heat buildup in warm weather.

More consistent temperatures and less stratification – Free ventilation cooling effectively reduces indoor air temperatures to help keep people and processes productive.

Cost savings – Heating systems deliver 100% of the heat generated into the building resulting in energy savings.

Flexibility and convenience – Heating systems require little to no ductwork and can be installed indoors or outdoors.
**Make-Up Air (MUA) Models**

**Design:** 100% outdoor air with a fixed discharge air volume.

**Function:** Supplies direct replacement air for building mechanical exhaust.

**Application:** Used as make-up air for industrial processes which incorporate mechanical exhaust.

---

**Fixed Recirculation (FR) Models**

(Not available on Model 2005)

**Design:** Fixed 80% return air and 20% outdoor air. Discharge air volume is fixed.

**Function:** Provides efficient, low-cost heating where minimum ventilation rates are required.

**Application:** Used in warehouses, distribution centers, retail outlets, etc.

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**Variable Air Volume (VAV) Models**

(Not available on Model 2005)

**Design:** 100% outdoor air with a variable discharge air volume from 50%-100%.

**Function:** Automatically responds to building pressure needs.

**Application:** Used in buildings requiring various levels of replacement air.
RAPID™ 2000-Series Features

Reliable, Efficient System Operation Provided by:
- 30:1 fully modulating burner that maintains 100% combustion efficiency.
- Double-width, double-inlet, forward-curved centrifugal fan built for long life.
- Energy-saving ignition system.
- Electronic fuel modulation providing immediate response.
- UV scanner for excellent reliability and durability on Models 2010 - 2050.
- Operation of fan only in warm weather to enjoy free ventilation cooling.
- Compliance to ETL per ANSI Z83.18 or Z83.4 standards.

Ease of Maintenance Provided by:
- Large access panel for easy maintenance of blower, motor, drives and burner.
- Blower installed downstream of burner for convenient access.

Other 2000-Series Options:
- 19” roof curb simplifies rooftop mounting.
- Inlet hood protects against water entrainment.
- Filter section with polylink or aluminum filters for longer equipment life of internal components.
- Motorized inlet damper for exfiltration control.
- FM/IRI compliant gas trains.
- Upright heater stand or legs of varying heights.

Long Lasting Construction Provided by:
- Heavy-duty, corrosion-resistant, galvanized steel construction.
- Sturdy, integral frame that is screwed and bolted together for durability and longer service life.
- Unpainted galvanized steel or white finishes available (2005 in white only).
- Heavy-duty, factory-installed motor and drive package designed for long-lasting performance.
- Heavy-duty, pre-lubricated bearings provide up to 30,000 hours of ABMA L-10 performance.

2000-Series Controls Options:
- Discharge temperature or room temperature controls available.
- Interlock to existing building management system or other remote devices.
- Mild weather stat.
- Low-temperature stat with bypass timer.

Typical Installations

<table>
<thead>
<tr>
<th>Suspended (Wall or Roof Inlet)</th>
<th>Horizontal on Roof Curb (Outdoor)</th>
<th>Upright Indoor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Suspended (Wall or Roof Inlet)" /></td>
<td><img src="image2" alt="Horizontal on Roof Curb (Outdoor)" /></td>
<td><img src="image3" alt="Upright Indoor" /></td>
</tr>
<tr>
<td>OA → DA</td>
<td>DA → OA</td>
<td>OA → DA</td>
</tr>
<tr>
<td>RA</td>
<td>RA</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suspended (Wall or Roof Inlet)</th>
<th>Horizontal on Legs (Indoor or Outdoor)</th>
<th>Upright Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Suspended (Wall or Roof Inlet)" /></td>
<td><img src="image5" alt="Horizontal on Legs (Indoor or Outdoor)" /></td>
<td><img src="image6" alt="Upright Outdoor" /></td>
</tr>
<tr>
<td>OA → DA</td>
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<td>OA → DA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RA</td>
</tr>
</tbody>
</table>

LEGEND
- OA = Outside Air
- DA = Discharge Air
- RA = Return Air
### RAPID™ 2000-Series Controllers

<table>
<thead>
<tr>
<th><strong>Basic Remote</strong></th>
<th><strong>Standard Discharge Control Remote (SDC)</strong></th>
<th><strong>Deluxe Temperature Control Remote (DTC)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>This control is used for make-up air and space heating. The discharge temperature of the heater remains constant as selected on the selection dial. The burner flame is modulated by a discharge temperature control, which is governed by the remote temperature selector.</td>
<td>This control is used for make-up air and day/night heating of the building. The discharge temperature of the heater remains constant as selected on the selection dial. The burner flame is modulated by a discharge temperature control, which is governed by the remote temperature selector.</td>
<td>This control is used for make-up air and total automatic day/night heating of the building. A solid-state modulating room Selectrastat fully modulates the burner flame to maintain space temperature and compensate for changing building heat losses or gains.</td>
</tr>
<tr>
<td><strong>FAN ON/BURNER ON Mode:</strong> Heater can operate continuously for building exhaust air replacement and space heating by maintaining a constant discharge temperature.</td>
<td><strong>AUTO/WINTER Mode:</strong> Heater cycles on/off to maintain space temperature as selected on the thermostat.</td>
<td><strong>AUTO/WINTER Mode:</strong> Occupied time: Heater can operate continuously, fully modulating Btu/h output to maintain space temperature as selected on the Selectrastat. Unoccupied time: Heater cycles on/off to maintain space temperature as selected on the programmable thermostat (night setback).</td>
</tr>
<tr>
<td><strong>FAN ON/BURNER OFF Mode:</strong> The blower can operate without the burner for summer ventilation.</td>
<td><strong>ON/WINTER Mode:</strong> Heater can operate continuously for building exhaust air replacement and space heating by maintaining a constant discharge temperature.</td>
<td><strong>ON/WINTER Mode:</strong> Heater can operate continuously, fully modulating Btu/h output to maintain space temperature as selected on the Selectrastat.</td>
</tr>
<tr>
<td><strong>ON/SUMMER Mode:</strong> The blower can operate without the burner for summer ventilation.</td>
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</tr>
<tr>
<td><strong>Dimensions:</strong> 10”L x 10”W x 4”D NEMA 1 enclosure.</td>
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**Installation Code and Annual Inspections:**
All installation and service of RAPID™ equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Rapid Engineering LLC and conform to all requirements set forth in the Rapid Engineering LLC manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Rapid Engineering LLC recommends that a qualified contractor conduct, at a minimum, annual inspections of your RAPID™ equipment and perform service where necessary, using only replacement parts sold and supplied by Rapid Engineering LLC.

**Further Information:** Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through RAPID™ representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

**This product is not for residential use.**

This document is intended to assist licensed professionals in the exercise of their professional judgment.

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