APPLICATIONS
Heating/Cooling/Makeup Air
» WAREHOUSES / FACTORIES
» SCHOOLS / UNIVERSITIES
» COMMERCIAL / RETAIL
» INDUSTRIAL
» GYMNASIUMS / FITNESS CENTERS
» CHURCHES / MEETING HALLS
» COMMUNITY CENTERS
» ARENAS

ReznorHVAC.com
Large capacity applications can be very specialized. Many manufacturers offer only one type of large air volume unit. Don’t fit your project around the HVAC equipment. With Reznor HVAC equipment, you get your choice:

- Direct or indirect fired
- Indoor or outdoor installation
- Vertical or horizontal discharge air
- Vertical or horizontal cabinetry
- Air turnover equipment

Reznor high air volume equipment is pre-engineered and cataloged. This gives you quick performance, submittal and specification information at your fingertips.

The range and features of Reznor high air capacity units make them ideally suited for space conditioning, makeup air or process applications such as:

- Agriculture curing, heating and ventilating
- Kitchen and laboratory makeup air
- Paint booths makeup air and drying
- Industrial process heating

### SELECTION GUIDE

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor / Outdoor</th>
<th>Heating Only</th>
<th>with DX Cooling</th>
<th>with Evaporative Cooling</th>
<th>with Chilled Water Cooling</th>
<th>Heating Capacity (MBH)</th>
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<tbody>
<tr>
<td>RPBL</td>
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</table>

**Value**

Reznor high capacity air handlers are engineered to provide the best value per cfm. This is evident by the number of national and international corporations that have chosen Reznor equipment for their factories and office buildings. Our customers include internationally known automobile manufacturers, aerospace manufacturers, electronics manufacturers, food and medicine producers.
Indoor/Outdoor Custom Equipment

The Reznor line offers a complete package of ultra high volume air handlers for vertical and horizontal applications.

- 100% outside air
- Mixed air control
- Space heating
- Air turnover

Features & Options

- Natural gas, propane, electric, steam, hot water or fuel oil
- 208-230V/1, 208-230V/3, 460V/3, 575V/3
- 8 different makeup air, space and discharge air controls
- 14 or 16 gauge cabinet construction
- Standard or high density insulation
- Multiple configurations for inlets and discharge with dampers
- Inlet louvers and filters
- 5-75 hp motors
- Variable frequency drive
- Vibration isolation
- Cooling - DX, chilled water or evaporative cooling
- Stainless steel heat exchanger
- Disconnects
- Roof curbs
- Remote console

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Arrangement</th>
<th>Source</th>
<th>CFM</th>
<th>Heating (MBH)</th>
<th>Cooling Types</th>
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<td>250 - 7,500</td>
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</tbody>
</table>

### Air Flow Configurations

Some jobs are constrained by the air flow and duct work. Reznor air handlers make it easy to apply the units, even in the most difficult of applications. Units can be floor mounted for easy access. If floor space is at a premium, most units can be suspended, mounted on the roof, or pad mounted outside the building with discharge air ducted inside. See configurations at right.
Indoor Mounted Units

Indoor indirect fired units give you the right amount of heat just where you need it. All units can be floor or ceiling mounted. Model SSCBL is a separated combustion unit.

- Up to 130°F temperature rise
- Over 2” external static pressure
- 80% thermally efficient
- Custom DX & chilled water coils

Outdoor Mounted Units

Model RPBL units are specifically designed for outdoor applications. They can deliver up to 100% outside air for make-up air or space conditioning. The weather-proof cabinet gives you worry-free performance. An air intake hood includes moisture elimination louvres. The robust indirect fired burner design allows the units to be used for general ventilation applications for occupied spaces.

- Up to 120°F temperature rise
- Over 2” external static pressure
- 80% thermally efficient
- Custom DX & chilled water coils

The Advantages of Separated Combustion

Reznor separated combustion system technology eliminates common “open flame” combustion problems such as contaminants in the indoor air and negative building air pressure.

- Air for combustion is taken from outside the building, preventing dirt, lint, dust or other contaminants in the indoor atmosphere from being burned.
- The combustion air flow is unaffected by negative building pressure or wind which can cause nuisance shutdown.
- Only one building penetration, horizontal or vertical (see the illustration at right).
Advantages of Indirect Fired Units

- Proven and robust Thermocore heat exchanger - over 1.5 million units installed since 1963
- 80% thermally efficient
- Heated air without the carbon monoxide or other flue gases in the air stream
- Allows up to 6 stages of control or up to 12:1 modulation for demanding applications

Features
- Natural gas or propane
- Aluminized steel heat exchanger
- Power vented
- Intermittent spark pilot
- Twin centrifugal blowers
- Gas control safety
- Motor starter
- Curb cap base
- Suspension hangers (Model SSCBL only)
- 208-230V/1, 208-230V/3, 460V/3, 575V/3 voltage
- Downturn plenum (Model RPBL only)
- Filter rack with 2" filters

Options
- 409 stainless steel heat exchanger
- 409 stainless drip pan
- Heat Controls (makeup air/discharge air)
  - 6 stages
  - Modulation, 2:1 through 12:1
- Thermostat control
- Single or double wall insulated construction
- Intermittent spark pilot with timed lockout
- Horizontal or vertical discharge
- Discharge dampers
- Horizontal and/or vertical Inlets
- Multiple damper control options
- Open dripproof or TEFC motor (motors meet EISA specifications for efficiency)
- Variable frequency drives
- High and low gas pressure switch
- Firestat and freezestat high ambient cutoff
- Convenience outlet
- Cooling cabinet with DX or chilled water coil (16-50 tons)
- Evaporative cooling module
- Disconnect switch - UL Listed
- Outside air hood (Model RPBL only)
- Roof curbs (Model RPBL only)

TECHNICAL DATA

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<tr>
<th>Model</th>
<th>Heating Only CFM</th>
<th>Heating &amp; Cooling CFM</th>
<th>Installation</th>
<th>Capacity (MBH)</th>
<th>Separated Combustion</th>
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<td>1200</td>
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</tbody>
</table>
Models ADF, ADFH and RDF are specifically designed to deliver up to 100% outside air for process make-up air or general ventilation. The robust direct fired burner units are an economical way to meet the heating needs of your applications.

- Up to 130°F temperature rise
- Maintain 160°F discharge air
- Over 2" external static pressure
- 92% thermal efficient
- Model RDF allows up to 75% recirculation air

Features

- Natural gas or propane
- Hot surface ignition system
- Motor starter
- Curb cap base with suspension hangers
- 208-230V/1, 208-230V/3, 460V/3, 575V/3
- Insulated cabinet construction

Options

- Double wall insulated construction
- Control options for makeup air & discharge air
- Thermostat control
- Horizontal or vertical discharge
- Discharge dampers
- Single-stage, two-stage or electronic modulation gas control
- Multiple damper control options
- Open dripproof or TEFC motor (motors meet EISA specifications for efficiency)
- Variable frequency drives
- High and/or low gas pressure switches
- Firestat and freezestat high ambient cutoff
- Convenience outlet
- Makeup air controls/dampers
- Evaporative cooling module
- Exhaust fan overhead door interlock
- Roof curb
- Outside air hood with filters
- Filter rack for 2” filters
- Disconnect switch - UL Listed

Advantages of Direct Fired Heating Equipment

When you need a heating solution for large volumes of ventilation air, then direct fired units may be the right solution. Direct fired heating equipment offers:

- Good heat-to-air volume value
- High thermal efficiencies approaching 92%
- Excellent temperature control with 25:1 modulation capabilities
- No venting or flue piping required
How Evaporative Cooling Works

Ever notice how your body cools off when you first step out of a pool? This is caused by water evaporating off your skin. When water changes from a liquid to a vapor, it absorbs energy - heat energy. So when it evaporates, it takes heat away from your body. You’re left feeling cool. This is very much like what happens in a Reznor evaporative cooling system.

Adiabatic cooling using high tech media pads can be 80% efficient. If the difference between dry bulb and wet bulb temperatures is 12°F, there will be a 10°F drop in the sensible temperature. Blowing this cooled air over people makes them feel more comfortable.
Solutions

No matter if your job is very large or just large, there’s a Reznor high capacity air handler that can meet your need. Reznor furnaces, air handlers and split systems can provide many solutions for your demanding applications.

The photos on this page illustrate just some of the places where Reznor equipment has been installed.

Why Reznor HVAC Air Handlers?

Reznor HVAC equipment is manufactured in a half dozen facilities around the world. You get global support from a company with the most models and options available.

With over 125 years of innovation and technological advancements, you can trust Reznor HVAC equipment to help you solve your HVAC challenges.