

# REZNOR®

A World of HVAC Equipment

## Solutions for HVAC Applications



[ReznorHVAC.com](http://ReznorHVAC.com)

# All Types of Commercial / Industrial Equipment

## TYPICAL APPLICATIONS

Gas, Oil and Hydronic Unit Heaters



Gas Fired Duct Furnaces



IAQ Ventilation Units



Gas Fired Infrared Heaters



Electric Unit Heaters



Split System Air Handlers and Condensing Units



High Efficiency Rooftop Unit



High Outside Air



DOAS Unit



Large Capacity Air Handlers



Light Commercial Units



### Unit Heaters

- Garden Centers
- Warehouse Stores
- Residential Garage
- Greenhouses
- Box Stores
- Gymnasium
- Car Dealerships
- Wood/Metal Shop

### Infrared Heaters

- Arenas
- Shipping/Receiving Areas
- Train Stations
- Airplane Hangars
- Loading Docks
- Assembly Lines
- Automotive/Service Centers

### High Outside Air

- Recreational Centers
- Reception Area
- Pharmacies
- Disco/Dance Halls
- Meeting Halls
- Light Industrial
- Dormitories

### Duct Furnaces

- Movie Studio
- Retail Shops
- Break Room
- Hardware Stores
- Showrooms
- Detention Centers

### Electric Heaters

- Workshops
- Entry Ways
- Stairwells
- Hallways
- Guard Station
- Rest Rooms
- Temporary Heating

### DOAS Unit

- Computer Rooms
- Pet Shops
- Multi-Use Assembly Halls
- Extended Care Facilities
- Hotel Corridors

### Ventilation Units

- Smoking Rooms
- Call Centers
- Day Care Centers
- Aerobics Room
- Classrooms
- Universities
- Health Spas
- Museums
- Libraries
- Locker/Shower Rooms
- Courtroom
- Hobby Shops
- Bars/Clubs
- Conference Rooms
- Meeting Rooms
- Health Centers

### Split Systems

- Retail Stores
- Yoga Studio
- Offices
- Meeting Halls
- Recreational Centers
- Banks
- Lecture Rooms
- Doctors' Offices
- Health/Beauty Spas

### Large Air Handlers

- Warehouses
- Factories
- Terminals
- Theatres
- Laboratories
- Animal Housing
- Condominium Common Areas
- Paint Booths
- Sports Facilities

### Light Commercial

- Offices
- Retail stores
- Restaurants
- Waiting Rooms
- Conference centers
- Religious Assembly Halls
- Schools

### VRF Systems

- Schools and Universities
- Hotels
- Office Buildings
- Apartments
- Healthcare Facilities
- Retail Strip Centers
- Museums
- Airports
- Day Care Centers
- Renovation and Additions

### High Efficiency Rooftop

- Studios
- Offices
- Food/Beverage
- Retail Spaces
- Restaurants

### Air Curtains

- Warehouses
- Factories
- Big Box Stores

# HVAC Equipment for A World of Applications

## UNIT HEATERS



We are the world's largest manufacturer of commercial unit heaters. You'll find no better selection. Here are some of the benefits from choosing Reznor unit heaters.

- Easy installation
  - » Compact - minimal space required
  - » Zone heating - direct heating where you need it
  - » Wide range - many sizes and types from which to choose
- Money saving operation
  - » Energy efficient
- Aesthetically pleasing
  - » Industrial strength with showroom appearance



Reznor Residential Garage / Workshop Heater

Reznor Model UDAP Gas-Fired Unit Heater in a Retail Store

Model	Gas Fired Unit Heaters					Specialty Unit Heaters			
	GOOD		BETTER		BEST	Gas	Hydronic	Electric	
	UDAP	UDBP	UDAS	UDBS	UEAS	LDAP	WS	EGHB	EXUB
Fuel Efficiency	Up to 83%	Up to 83%	Up to 83%	Up to 83%	Up to 93%	83%	-	-	-
Separated Combustion	-	-	✓	✓	✓	-	-	-	-
Heating Technology	Tcore <sup>2</sup> ®	Tcore <sup>2</sup>	Tcore <sup>2</sup>	Tcore <sup>2</sup>	Tcore <sup>3</sup> ®	Tcore <sup>2</sup>	Fin Tube	Encased Element	
Heating Range (MBH) <sup>A</sup>	30-400	30-400	30-400	30-400	130-310	400-1,200	18-350	2-60 <sup>A</sup>	5-30 <sup>A</sup>
CFM Range	450-5,125	450-5,125	500-6,200	500-6,200	2,250-4,275	3,250-16,750	270-4,750	700-2,000	400-3,000

<sup>A</sup> Heating range shown in MBH except for Models EGHB and EXUB. These heating values are shown in kW.

## VRF UNITS

Outdoor condensing unit



Indoor Units



Variable Refrigerant Flow (VRF) systems move refrigerant to multiple indoor fan coil units, each with its own control. This allows building occupants to meet their individual comfort needs without the energy loss associated with moving air through ductwork.

Reznor VRF systems are inverter-driven, allowing the system to soft start and consume less energy. Reznor VRF systems also modulate capacity according to demand, using the least amount of energy possible to meet the heating and cooling needs in specific areas.

VRF systems provide ultimate comfort, design flexibility, simple installation and energy savings.

Model	Description	Heating Capacity	Cooling Capacity
B-HW**A3AK	Indoor, Wall-Mounted Heat Pump Unit	7-24 MBH	2.2-7.1 kW
BD2W**SAK	Indoor, 2-Way Cassette Ceiling-Mounted Unit	9-24 MBH	2-7 kW
BD4W**SAK	Indoor, 4-Way Cassette Ceiling-Mounted Unit	7-48 MBH	2.2-14.0 kW
BDCO**AK	Indoor, Console Heat Pump Unit	7-18 MBH	2.2-5.0 kW
BDHH**SAK	Indoor, High ESP Duct Heat Pump Unit	18-96 MBH	5.6-28.0 kW
BDDL**SAK	Indoor, Low ESP Duct Heat Pump Unit	7-48 MBH	2.2-14.0 kW
BDF A**AK	Indoor, Fresh Air Processing Unit	72-96kW	2.2-2.8 kW
BDFC**AK	Indoor, Floor/Ceiling-Mounted Heat Pump Unit	9-48 MBH	2.8-14.0 kW
V5BV**WMAK	Outdoor, Multi Inverter, VRF Heat Pump Unit (side discharge)	42-86 MBH	3-5 Tons
V5BV**WMBK	Outdoor, Modular, Heat Pump Condensing Unit	77-270 MBH <sup>B</sup>	6-20 Tons <sup>B</sup>
V5BV-R**WMBK	Outdoor, Modular, Heat Recovery Condensing Unit	81-135 MBH	6-10 Tons

<sup>B</sup> Larger capacities attained by combining two units into a single system.

## INFRARED HEATERS



Reznor Low Intensity, Tubular, Radiant Heater in a Sports Complex

Infrared rays produce sun-like warmth when absorbed by non-reflective surfaces (like your skin). Reznor high and low intensity infrared equipment gives you instant heat and comfort.

Low intensity heaters cover larger areas and are available with single or two-stage heating. Also available for heating somewhat harsh or humid environments <sup>A</sup>.

Model RIH offers high intensity radiant heating.



Model RIH - High Intensity Radiant Heater in a Train Station

Model	Description	Heating Range (MBH)	Length Range (Feet)
VPS	Low Intensity, Single Stage Heater	60 - 200	20 - 80
VPT	Low Intensity, Two Stage Heater	45 - 200	20 - 70
VCS <sup>A</sup>	Low Intensity, Single Stage Heater	60 - 200	20 - 80
VCT <sup>A</sup>	Low Intensity, Two Stage Heater	45 - 200	20 - 70
RIH	High Intensity Radiant Heater	30 - 200	-

<sup>A</sup> Models VCS and VCT are constructed of stainless steel and approved for humid environments such as a car wash or greenhouse or outdoor installation.

## DUCT HEATERS



Reznor Rooftop Mounted Duct Furnace

Reznor duct furnaces are available in models for indoor or outdoor applications. Outdoor models include weatherized cabinet and control compartment. Each model is completely pre-packaged, factory wired, and fire tested. Units are designed for use with standard air handling systems in air conditioning, heating or makeup air applications.

Model	Heating Range (MBH)	Air Volume Range (CFM) <sup>w</sup>
EEDU	75 - 400	615 - 14,745
RP	125 - 400	1,020 - 14,745
HRPD	250 - 800	1,855 - 14,815
SC	100 - 400	820 - 14,815
X	75 - 400	610 - 14,745

<sup>w</sup> High air flow volume can be achieved by removing air baffles from heater.

## SPLIT SYSTEMS



Our versatile split systems give you the flexibility that you won't find in a packaged system. The multitude of configurations help you design the mechanical system the way you want it.

The product line also features the first North American, 92% efficient, condensing commercial furnace.

*Split System consisting of a Model RDH Air Handler and Model MASA Condensing Unit*

### CONDENSING UNIT

Model	Nominal Capacity (Tons)	Circuit Capacity (MBH)	
		Circuit A	Circuit B
MASA	5 - 20	22 - 79	37 - 160

<sup>A</sup> Heating range shown in MBH except for Models PEH and REH. These heating values are shown in kW.

<sup>B</sup> Hydronic heating is optional. Models PXH and RXH are available as cooling-only units.

### AIR HANDLERS

Model	Description	Heat Capacity Range (MBH) <sup>A</sup>	Cooling Capacity Range (Tons)	CFM Range
SHH	92% Gas Heating Efficient, Indoor Split System	131 - 345	3 - 45	1,500 - 6,600
RHH	92% Gas Heating Efficient, Rooftop Split System	131 - 345	3 - 45	1,500 - 6,600
CAUA	Indoor, Vertical Gas Heating Split System	150 - 400	5 - 15	1,600 - 6,600
PDH	Indoor, Horizontal Gas Heating Split System	75 - 400	3 - 45	500 - 7,500
RDH	Rooftop, Horizontal Gas Heating Split System	75 - 400	3 - 45	500 - 7,500
SDH	Separated Combustion, Indoor Gas Heating Split System	75 - 400	3 - 45	500 - 7,500
PEH	Indoor, Electric Heating Split System	10 - 120 kW <sup>A</sup>	3 - 45	500 - 7,500
REH	Rooftop, Electric Heating Split System	10 - 120 kW <sup>A</sup>	3 - 45	500 - 7,500
PXH	Indoor, Cooling Split System with Optional Heating <sup>B</sup>	34 - 908	3 - 45	500 - 7,500
RXH	Rooftop, Cooling Split System with Optional Heating <sup>B</sup>	34 - 908	3 - 45	500 - 7,500

## LIGHT COMMERCIAL UNITS



*Model R8HE*

Reznor offers the customer a choice when deciding building operation.

- Dual Fuel
- Heat Pump
- High Efficiency AC
- Standard AC

*Model JT4B(D,E)*



Model	Description	Cooling Efficiency	Heating Efficiency	Cooling Capacity	Heating Capacity	CFM Range
P7TQ	Electric Heating, Electric Cooling Packaged Unit	12.9 IEER	--	6-10 Tons	9-35 kW	1,650-3,450
P8SE	Electric Heating, Electric Cooling Packaged Unit	14 SEER	--	3-5 Tons	5-20 kW	1,100-1,900
R7TQ	Gas Heating, Electric Cooling Packaged Unit - 3 Phase	12.7 IEER	81% AFUE	6-10 Tons	110, 166 MBH	34,000
R8GE	Single Packaged Gas/Electric Packaged Unit	14 SEER	81% AFUE	2-5 Tons	45-120 MBH	750-1,900
R6GF-B	Gas Heating, Electric Cooling Packaged Unit	15 SEER	81% AFUE	2-5 Tons	80-120 MBH	650-1,350
R6GI	High Efficiency Electric Cooling, Gas Heating Packaged Unit	20 SEER	81% AFUE	2-5 Tons	80-120 MBH	800-1,640
R8HE	High Efficiency Gas Heating, Electric Cooling Packaged Unit	14 SEER	95% AFUE	2-5 Tons	60-96 MBH	700-1,900
R6GN	Gas Heating, Electric Cooling Packaged Unit	10.8 EER	80%	12.5-15 Tons	180-315 MBH	4,000-6,000
Q7TQ	Single Packaged Heat Pump Unit	12.2 IEER	3.3 COP	6-7.5 Tons	70, 90 MBH	1,280-3,950
Q6SE	Heat Pump Packaged Unit	14 SEER	8.0 HSPF	1-5 Tons	22.8-59 MBH	700-1,800
Q6SP	Heat Pump Packaged Unit	11 SEER	3.3 COP	7.5-10 Tons	85-114 MBH	2,825-4,100
DF6SF-B	iHybrid® Dual Fuel Packaged Unit	15 SEER	81% AFUE/8.0 HSPF	2-5 Tons	80-120 MBH	700-2,000
JT4BD	Condensing Unit Heat Pump - 3 Phase	13 SEER	8.0 HSPF	3-5 Tons	36.8-60 MBH	--
JT4BE	Condensing Unit Heat Pump - 3 Phase	14 SEER	8.2 HSPF	3-5 Tons	36-57 MBH	1,270-1,600
(S,T)5BP	Split System Air Conditioner (S) or Heat Pump (T)	11.5 IEER	3.3 COP	7.5-10 Tons	86-107 MBH	--
B6BMM	Indoor Air Handler Heat Pump & Air Conditioner (Optional 5-29 kw Electric Heating)	--	--	2-5 Tons	18-60 MBH	635-2065
B5SM	Indoor Air Handler Heat Pump & Air Conditioner	--	--	7.5-10 Tons	10-36 kW	2,200-5,000
MB7EM	Modular Indoor Air Handler Heat Pump & Air Conditioner - 3 Phase	--	--	3-5 Tons	9-15 kW	700-2,000

## VENTILATION UNITS



Model ZQYRA

This is the first fully integrated, commercial ventilation unit! The new patent-pending Reznor Z.62e precisely combines the benefits of a heat pump and an energy recovery wheel into one unit. This hybrid unitary product maximizes the entire system to give you hassle free year round performance.

### Hybrid Ventilation

The HVAC industry needed a new class of ventilation products for engineers to use. Superior control and energy efficiency define this class of product. The Z.62e technology takes two reliable elements and combines them into one product. The Z.62e is greater than the sum of its parts.



Model	Air Flow (SCFM)	Heat Pump Max. (MBH)
ZQYRA-8	500 - 1100	35
ZQYRA-12	900 - 1500	43

## LARGE CAPACITY AIR HANDLERS



Model DFC - Direct Fired, Makeup Air System for Rooftop Mounting (Also available in vertical configuration)

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 a choice.

Whether you need a makeup air system or recirculated air, you'll find the equipment you need to meet your specifications. Most models are available with DX cooling, chilled water cooling or evaporative cooling.



Model AEB - Air Turnover System

Model	Air Volume Range (CFM)	Heating Capacity Range (MBH)	Type of Heating System
RPBL	3,300 - 14,000	400 - 1,200	Indirect Fired
RPDBL	6,600 - 22,000	800 - 1,600	Indirect Fired
SSCBL	3,300 - 13,500	400 - 1,200	Separated Combustion
SSCDBL	6,600 - 22,000	800 - 1,600	Separated Combustion
RDF	1,000 - 28,000	400 - 3,000	Direct Fired
ADF	2,000 - 15,500	500 - 1,250	Direct Fired
ADFH	2,000 - 15,500	500 - 1,250	Direct Fired
DFC	20,000 - 90,000	4,000 - 12,800	Direct Fired
AEB	3,250 - 150,000	250 - 7,500	Indirect Fired
PCD	1,700 - 110,000	250 - 7,500	Indirect Fired
HPCD	3,100 - 140,000	250 - 7,500	Indirect Fired

# PACKAGED AIR CONDITIONING SYSTEMS



Model RDCC

The breadth of the P125 system can cover more applications than any other standard packaged equipment. Optional gas or electric heating is also available.

## Fresh Air

Using makeup air and ventilation air equipment is the primary method by which buildings insure good environmental conditions for people in the occupied spaces. In fact, dilution ventilation is a great way to reduce the spread of colds for a healthier building environment.

## Applications:

- Corridor makeup air
- School ventilation
- Kitchen makeup air
- Theatre ventilation
- Manufacturing makeup air

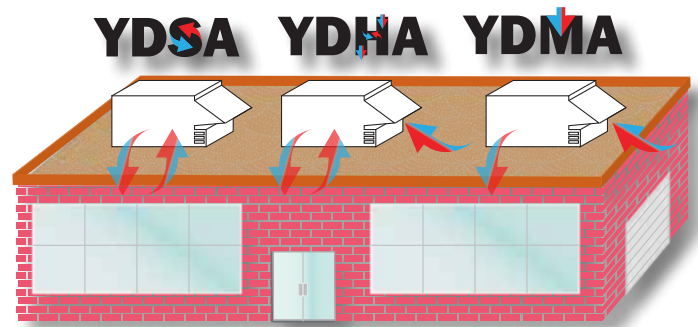


Illustration of how to apply P125 Series

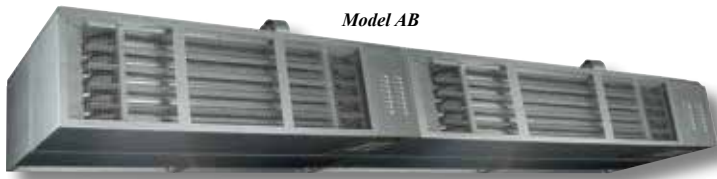
Model	Description	Cooling Capacity Range (Tons)	Heat Capacity Range (MBH) <sup>Q</sup>	Reheat Capacity (Tons)	CFM Range
YDMA	92% Efficient Gas Heating/DX Cooling Makeup Air System <sup>R</sup>	5 - 35	75 - 800	-	650 - 9,000
YDSA	92% Efficient Gas Heating/DX Cooling Recirculation System <sup>R</sup>	10 - 25	100 - 400	-	3,000 - 11,550
YDHA	92% Efficient Gas Heating/DX Cooling Hybrid System <sup>R</sup>	10 - 35	75 - 80	-	750 - 10,550

## Modular Air Processing Systems (MAPS®)

Model	Description	Cooling Capacity Range (Tons)	Heat Capacity Range (MBH) <sup>Q</sup>	Reheat Capacity (Tons)	CFM Range
RCC	-	5 - 34	-	-	1,000 - 9,000
RDC	-	7 - 40	-	2 - 6	1,000 - 9,000
RDCC	Natural Gas	5 - 34	100 - 1,000	-	1,000 - 9,000
RDDC	Natural Gas	7 - 40	100 - 1,000	2 - 6	1,000 - 9,000
RECC	Electric Heat	5 - 34	10 - 88 kW	-	1,000 - 9,000
REDC	Electric Heat	7 - 40	10 - 88 kW	2 - 6	1,000 - 9,000

<sup>R</sup> Models YDMA, YDSA and YDHA heating is optional. Available in high efficiency (80%) or super high efficiency (92%) gas heating.

## AIR CURTAINS



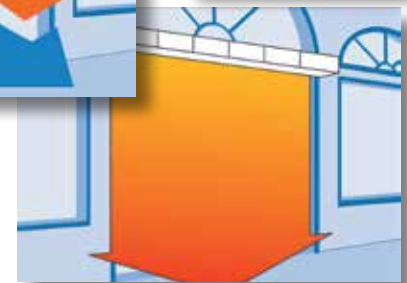
Model AB

When doors are opened during winter months, outside, colder, more dense air flows in through the bottom half of the door opening, while warm internal air flows out through the upper part of the doorway. Likewise, in air-conditioned buildings or cold stores, the colder, more dense internal air spills out at low level and is replaced in the space by warm, moist air.

The installation of a Reznor energy saving air curtain provides an energy saving barrier of air that defeats the natural convection airflow keeping conditioned air inside the building.

The Reznor design provides air at a critical velocity, volume and temperature for optimum performance.

Model AB	175	225
Maximum Door Width - Ft (M)	6 (1.75)	7 (2.25)
Maximum Mounting Height - Ft (M)	20 (6)	20 (6)
Total Fans (qty)	3	4
Maximum Air Volume - CFM (M <sup>3</sup> /hr)	4,160 (7,068)	5,548 (9,425)
Maximum Heat Capacity - MBH (kW)	175 (51)	225 (66)
Electrical Supply	230V / 1Ph / 60Hz	
Current Rating per Fan	4.5A (FLA)	



## WORLD-WIDE SUPPORT

### ReznorHVAC.com

Energy Analyzer

Current Product Manuals



Selection Software

Distributor Locator



### Other features of the Reznor Website:

- Current Product Updates
- Utility Rebate Information
- Quick Specifications
- Fan Curve Data
- Product Training
  - » Informational Videos
- Dimension Drawings (CAD, PDF)
- Revit (BIM) Support Drawings
- Service Tips
- Wiring Diagram Search
- Online Ordering
- RezPro® Toolbox (Engineering Selection Software)
- Downloadable Software
- Cooling Coil Calculator and Selection
- Digital Literature
  - » Product Catalogs
  - » Installation Manuals
  - » Owner's Manuals
  - » Promotional Brochures
  - » Parts Manuals
  - » Service Kit Manuals

To find the Reznor Office or Sales Agent near you, go to [ReznorHVAC.com](http://ReznorHVAC.com)

In North America, call 1-800-695-1901

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