UNIT HEATERS



REZNOR®

APPLICATIONS Space Heating

- » WAREHOUSES
- » FACTORIES
- » GREENHOUSES
- » COMMERCIAL
- » INDUSTRIAL
- » GYMNASIUMS
- » RESIDENTIAL GARAGES
- » RETAIL









Capacities											
	30	-	1,200	MBH							
	380	-	16,750	CFM							
	2	-	60	kW							
	13	-	350	МВН							

www.RezSpec.com/UH

A Variety of Unit Heaters for any Need

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



Electric

EXUB

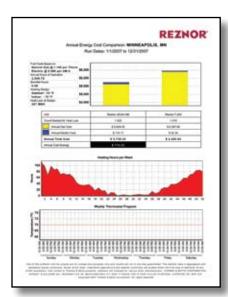
EGHB

SELECTION GUIDE

		Gas	Fired Unit F	leaters		Specialty Unit Heate					
	GO	OD	BET	BETTER		Gas	Hydronic	Oil			
Model	UDAP	UDBP	UDAS	UDBS	UEAS	LDAP	ws	ОН			
Fuel Efficiency	Up to 83%	Up to 83%	Up to 83%	Up to 83%	Up to 93%	83%		82%			
Axial Propeller Fan	✓		✓		✓	✓	✓	✓			
Ductable Blower		✓		✓							
Power Vented	✓	✓	✓	✓	✓	✓		✓			
Separated Combustion			✓	✓	✓						
Heating Technology	TCORE ^{2®}	TCORE ²	TCORE ²	TCORE ²	TCORE ^{3®}	TCORE ²	Fin Tube	Drum			
Heating Range (MBH) ^A	30-400	30-400	30-400	30-400	130-310	400-1,200	18-350	118-229			
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	2,000-3,200	70		

Ductable blower		•		•						
Power Vented	✓	✓	✓	✓	✓	✓		✓		
Separated Combustion			✓	✓	✓					
Heating Technology	TCORE ^{2®}	TCORE ²	TCORE ²	TCORE ²	TCORE ^{3®}	TCORE ²	Fin Tube	Drum	Encased	Element
Heating Range (MBH) ^A	30-400	30-400	30-400	30-400	130-310	400-1,200	18-350	118-229	2-60 ^a	5-30 ^A
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	2,000-3,200	700-2,000	400-3,000

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



Take the Reznor Challenge:

Use our Energy Analyzer Software to compare Reznor unit heaters to others. Prove to yourself that real value is determined by looking at the complete energy efficiency (both thermal and electrical).

A Heritage of Providing Comfort

In 1937 the first Reznor self-contained, suspended, gas-fired unit heater was introduced.

This technological advancement was the result of years of innovation dating back to the introduction of the first Reznor gas stove heater in 1888.

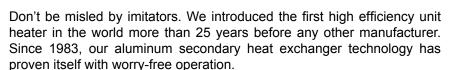
This innovation and advancement continues in Reznor unit heaters today. and can be seen in our complete line of units, including the super high efficiency unit heater, and the high bay heater.



Super High Efficiency Unit Heater



Model UEAS



Model UEAS (2nd generation) unit heaters have a refreshing appearance with a clean, glossy white cabinet finish.

Best in Class

- » Up to 93% gas fuel efficiency
- » Lowest electrical usage

Technologically Advanced Heat Exchanger

- » Titanium stabilized steel primary heat exchanger
- » High-performance aluminum alloy MacroChannel® secondary heat exchanger (patent pending)
- Compact 40% smaller than previous generation heater
- Visually Pleasing Attractive formed and finished cabinet doesn't look like an industrial unit heater

Versatile

- » Shipped for natural gas with propane conversion kit
- » Vertical or horizontal venting
- » Available for 60 Hz or 50 Hz operation
- Dependable Backed by a limited 10 year heat exchanger and 5 year parts warranty
- Consistent Quality Reznor has been a leader in the HVAC industry since 1888
- Ease of Maintenance Easy access and easy cleaning



TECHNICAL DATA

Model UEAS	130	180	260	310			
Input Heating Capacity (BTUH)	131,000	175,000	260,000	305,000			
Thermal Efficiency (%)	93	91	92	91			
Discharge Air Temperature Rise (°F)	50	60	50	60			
Air Volume (CFM)	2,256	2,458	4,430	4,283			
Electrical/Control	115V/24V						
Power Consumption (watts at 115V)	657	657	1,020	1,020			

The Advantages of MacroChannel

The smooth aerodynamic design of the Reznor MacroChannel allows more air through the heater and down to the floor where you need it.

Another advantage is the MacroChannel will not collect dust, lint, or debris like a traditional "coil" style secondary heat exchanger.

When you combine the fuel efficiency with the electrical motor efficiency, Reznor units cost less to operate than other comparable heaters.

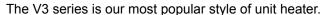


High Efficiency Unit Heaters









These units are sturdy enough to provide reliable heat in demanding commercial/industrial buildings. They are also equally at home in residential garages or workshops^a.

The preeminent feature is the aerodynamic TCORE2 heat exchanger and single burner combustion system.

- Saves Money 82-83% thermal efficiency
- Allows Maximum Headroom The low profile and ability to be mounted close to the ceiling leaves plenty of headroom.
- Reliable Patented[®] TCORE² single burner combustion system
- Quiet Isolated fan and venter motors
- Compact Control compartment houses all electrical components
- Direct Heat Where It's Needed
 - » Vertical and horizontal louvers
 - » Downturn nozzles



Models UDAP & UDAS



TECHNICAL DATA

Models UDAP/UDAS/UDBP/UDBS			45	60	75	100	125	150	175	200	225	250	300	350	400
Input Heating Capacity (MBH)			45	60	75	105	120	150	175	200	225	250	300	350	400
Thermal Efficiency (%)			83	83	83	83	83	83	83	83	83	83	83	83	83
Discharge Air Temperature	UDAP/UDAS	50	55	60	60	60	60	60	60	60	60	60	60	60	60
Rise (°F) UDBP/UDBS		75	75	75	75	75	75	75	75	75	75	75	75	75	80
Air Valuma (CEM)	UDAP/UDAS	456	629	769	961	1,345	1,537	1,921	2,242	,2562	2,882	3,202	3,843	4,483	5,123
Air Volume (CFM)	UDBP/UDBS	506	759	1,012	1,265	1,793	2,049	2,562	2,989	3,416	3,843	4,270	5,123	5,977	6,185



- Model UDAP and UDAS in sizes 30-125 are approved for installation in attached residential garages in the U.S. and Canada.
- ^B U.S. Patent No. 6,889,686

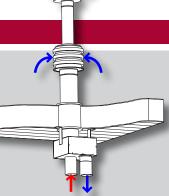


Models UDBP & UDBS

The Advantage of Reznor 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).



High Capacity, High Bay Heater

Downflow air discharge, high velocity heater for high bay applications

Model LDAP can provide more heat than a standard unit heater, up to 1,200,000 BTUH. This is the same amount of heat as a typical packaged heater or direct fired unit.

Model LDAP is less expensive to install than a direct or indirect fired, packaged heating system.

By destratifying you lower the air temperature at the ceiling, and reduce the heat loss in your building.



- » 83% Thermal efficiency
- » Destratification adjustable fan control (air economizer)
- » Single point connections for gas, electricity and vent
- Sturdy Patented^B TCORE² single burner combustion system
- Dependable Titanium stabilized heat exchanger(s)
- Quiet Vibration/noise isolated fan and venter motors
- Versatile
 - » Natural gas or propane
 - » Wall or ceiling mounting
 - » Run the fans without the heat in summer to improve working conditions by alleviating stagnant air to create a cooling affect
 - » Directional nozzles and louvers aim the heated air right where you need it (see photo below)





Model LDAP is arranged for vertical (downflow) air delivery. As George Reznor once said, "We live on the floor, not on the ceiling.



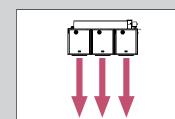
TECHNICAL DATA

Model LDAP	400	800	1200
Input Heating Capacity (BTUH)	400,000	800,000	1,200,000
Thermal Efficiency (%)	83	83	83
Air Volume (CFM)	5,589	11,178	16,768
Air Volume (CFM) - Destratification @ Medium Speed	4,650	9,300	13,950
Air Volume (CFM) - Destratification @ Low Speed	3,250	6,500	9,750

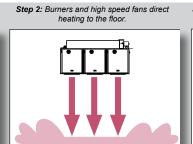


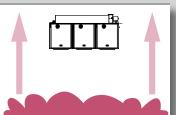
^B U.S. Patent No. 6.889.686

Provide Recycled Heat to the Work Area



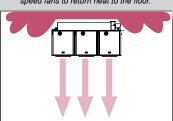
Step 1: Wall mounted thermostat calls for heat.





Step 3: Thermostat setting is reached, shutting

off heater. Heated air naturally rises.



Step 4: Unit mounted sensor triggers the low speed fans to return heat to the floor

Hydronic Heating

If you need hydronic (steam or hot water) heating, Reznor Model WS is the heater of choice.

Versatile

- » Each unit can be mounted for horizontal or vertical (down) air delivery
- » Units can be selected to operate at 60 Hz or 50 Hz
- » Accurate size selection can be determined by using Reznor selection software program
- Dependable The standard totally enclosed motors have internal overload protection standard
- Adjustable Every motor can be field set for high speed/low speed
 - » High speed for expanded floor coverage
 - » Low speed for higher temperature rise
- Sturdy The heat exchanger of every unit is pressure tested at the factory
- Quiet Fans are mounted with vibration isolation for smooth operation







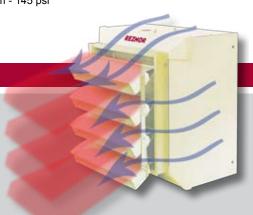


TECHNICAL DATA

Model WS			18/24	23/33	44/62	60/85	78/110	96/120	140/175	190/238	300/350	
Maximum Heating	Fan	Low	18	23	44	60	78	96	140	190	300	
Capacity (MBH)	Speed	High	24	33	62	85	110	120	175	238	350	
Maximum Leaving or	٥E	Low	121°	124°	132°	129°	125°	134°	134°	140°	133°	
Air Temperature	г	High	115°	121°	126°	123°	121°	131°	130°	137°	128°	
Noise Level at 16-1/2 ft		Low	45	46	49	54	57	47	49	52	61	
(5m) - dB(A)		High	52	54	58	63	65	52	55	60	67	
Approximate Air	CFM	Low	270	330	560	800	1,100	1,200	1,750	2,200	3,800	
Volume	CLIN	High	400	500	860	1,250	1,650	1,550	2,300	2,850	4,750	
Electrical Power	115/1/60 - 240/1/50 (50 Hz available on request)											
Working Pressure			Hot Water - 150 psi; Steam - 145 psi									

Increased Air Throw Capacity

The Air Flow Induction Optimizer increases the throw for Reznor Models WS. This increased flow results in energy savings and better environmental control. The unique shape of the deflecting louvers which create layers of hot air at the unit outlet. The space created between layers causes air around the front of the unit to be drawn into the air stream and mixed with the heated air. The result is a significant increase in the air throw.



Other Unit Heaters

Oil-Fired Unit Heaters

Reznor fuel oil fired heaters are ideal for locations where heating fuel oil is preferred. Model OH units are 81% fuel efficient.

All units feature a robust heat exchanger combustion chamber with large, easily accessible, service panels. The oil burner assembly has an integral fuel pump and a pressure-atomizing flame-retention burner that provides long life for the combustion chamber. The burner has an electronic spark ignition system.

TECHNICAL DATA

Model OH	95	140	190
Thermal Input (BTUH) ^A	119,000	175,000	231,000
Thermal Output (BTUH)	96,000	142,000	187,000
Air Volume (Free Air) (CFM)	2,000	3,200	3,200

^A Input based on 140,000 BTUs per gallon of fuel oil.



Model OH



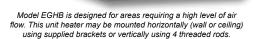
Electric Unit Heaters

When natural gas, propane and hydronic heating are not available, choose a Reznor electric unit heater.

A variety of unit-mounted or wall mounted thermostats are available.

- Attractive Appearance Epoxy/polyester powder paint finish
- **Durable** Heavy gauge cabinet construction
- Versatile A variety of mounting kits are available for field installation





Model EXUB explosion-resistant unit heaters are designed for rugged industrial applications.



TECHNICAL DATA

Size		2	3	4	5	7	10	15	20	25	30	40	50	60
kW		2	3	4	5	7.5	10	15	20	25	30	40	50	60
CEM	EGHB EXUB	700	700	700	700	700	700	1,350	1,350	1,350	1,350	2,000	2,000	2,000
CFIVI	EXUB	-	-	-	400	600	800	1,200	1,700	2,100	3,000	-	-	-

Other Electric Heaters

There are a variety of Reznor electric unit heaters to fit a variety of needs. These include:

- Portable unit heaters
- Architectural cabinet heaters
- ▶ Wall-mounted heaters
- ► Ceiling-mounted heaters

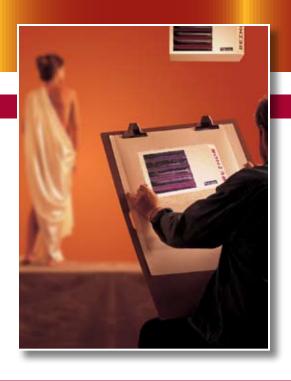


By Design...

Aesthetically Pleasing

One of the great things about Reznor unit heaters is that they can be installed anywhere that you need affordable, reliable space heating.

These heaters are robust enough for traditional installations such as warehouses and factories. They are also stylish enough to be installed in retail stores, meeting halls, or other public places.



Energy Efficient

Model UEAS cuts heating bill by 24%!

At a test site in a Michigan warehouse, two older unit heaters were replaced with new Model UEAS, 90%+ efficient units.

In the spring, the owners reviewed their heating bills from the previous two winters. After comparing the total amount of natural gas used and the weather data (degree days), they calculated that their heating bill was reduced by 23.8%.



Versatile

Reznor unit heaters are sturdy enough to handle the rigors of demanding commercial/industrial applications, so you'll have no worries applying this to a residential garage or workshop

- Maintain warm, comfortable working temperature.
- Store temperature sensitive items for the winter.
- > Stay comfortably warm from home to car.



Note: In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

For complete catalog information including submittals, energy calculations, dimension drawings, and more go to www.RezSpec.com or call 800-695-1901.

