

# **REZNOR<sup>®</sup>**

## **Gas Unit Heater Portfolio**

Updated January 2024

**REZNOR<sup>®</sup>**

# About REZNOR®

- Founded in 1888 in Mercer, Pennsylvania
- First Gas-fired Unit Heater in 1920
- Acquired by Nortek Global HVAC in 2014
- Industry Leaders in Unit Heater Innovation
  - 1<sup>st</sup> Suspended Gas-fired Unit Heater
  - 1<sup>st</sup> High Efficiency Models
  - 1<sup>st</sup> Separated Combustion Models

135 Years  
of Heating  
Excellence



The Original  
REZNOR Reflector  
Heater

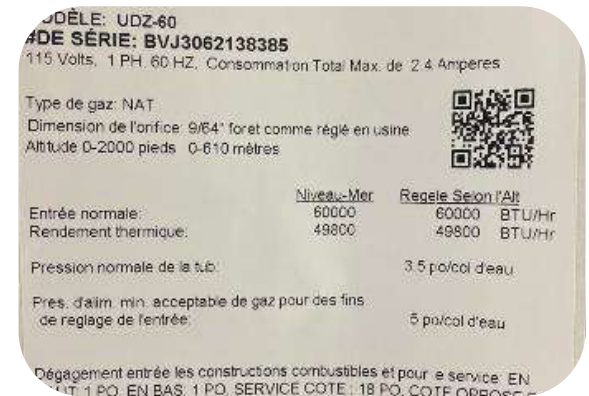
# Fast and Easy to Install



External Gas Connection  
External Vent Connections  
External Thermostat  
Connections  
Built in Disconnect Switch in  
Separated Combustion models



2 or 4-post Hanging  
Low Profile Hangers  
Adaptable to 1" pipe-hanging



Easy Access to Manual with QR  
code  
Multiple Languages  
Many Venting Options Available

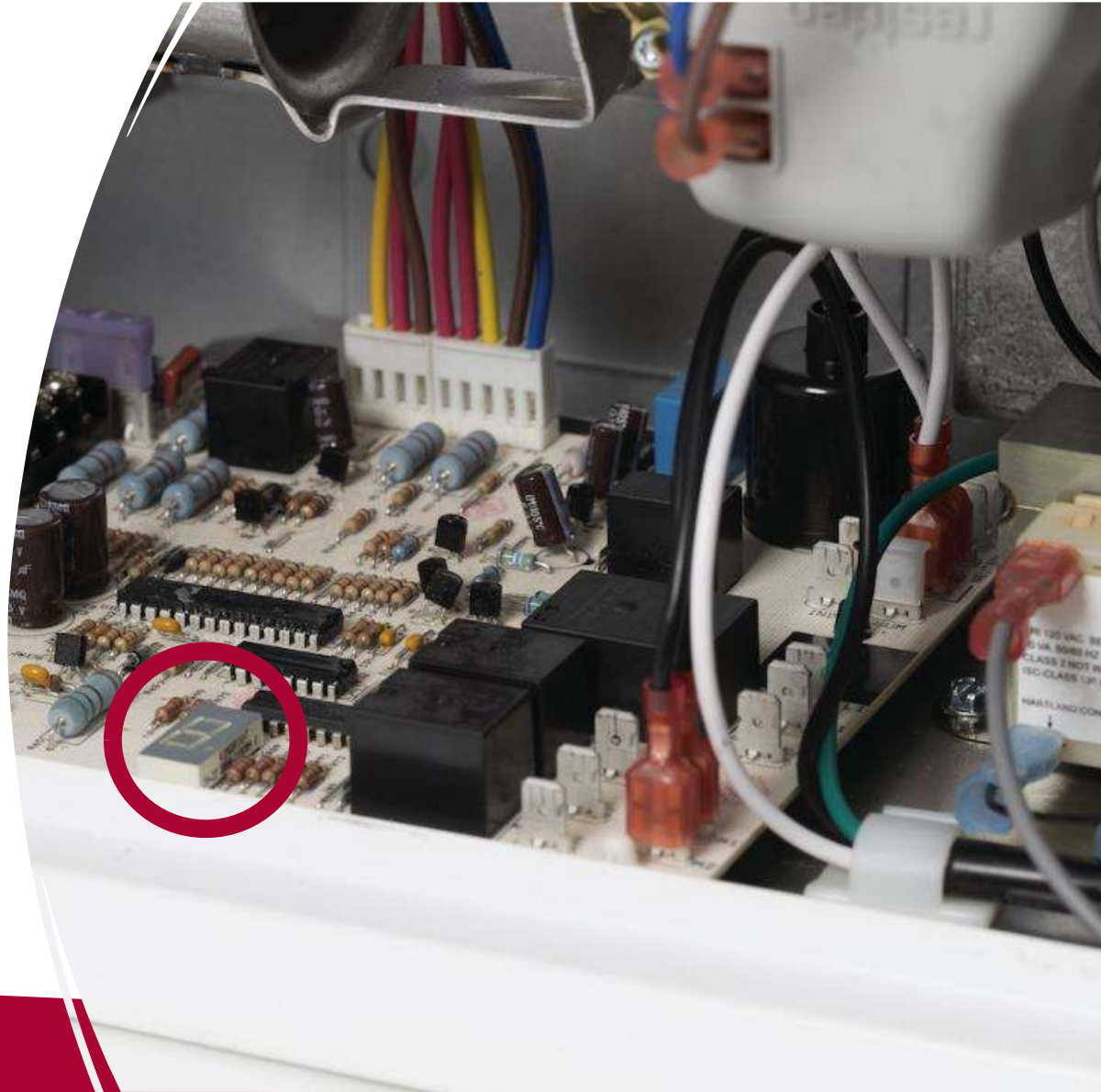
# External Status Indicating LED

- Normal Operation Indicated by Solid Green Light
- Flashing Green Light Indicates a Fault and Service is Required
- **Visually Notifies** owner of Issues



# Digital Error Code Display

- Quick and Easy Troubleshooting
- Alphanumeric Digital Display (no more counting flash codes)
- **Minimizes Unit Downtime** by Providing the Repair Technician the Exact Fault Information
- Inside door has all fault codes listed on wiring diagram



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# Fast and Easy to Maintain or Service



Easy Access Service Door

Door is Hinged and Removable

Door has Safety Strap

Built-in Disconnect Switch on  
Separated Combustion Models



Error Code Display

Easy Access to Manual and  
Repair Parts List with QR code

1400+ Reznor-qualified  
Branches for Service Parts



Operation Verification  
At-a-Glance

Local Technical Support





# Hinged Service Door

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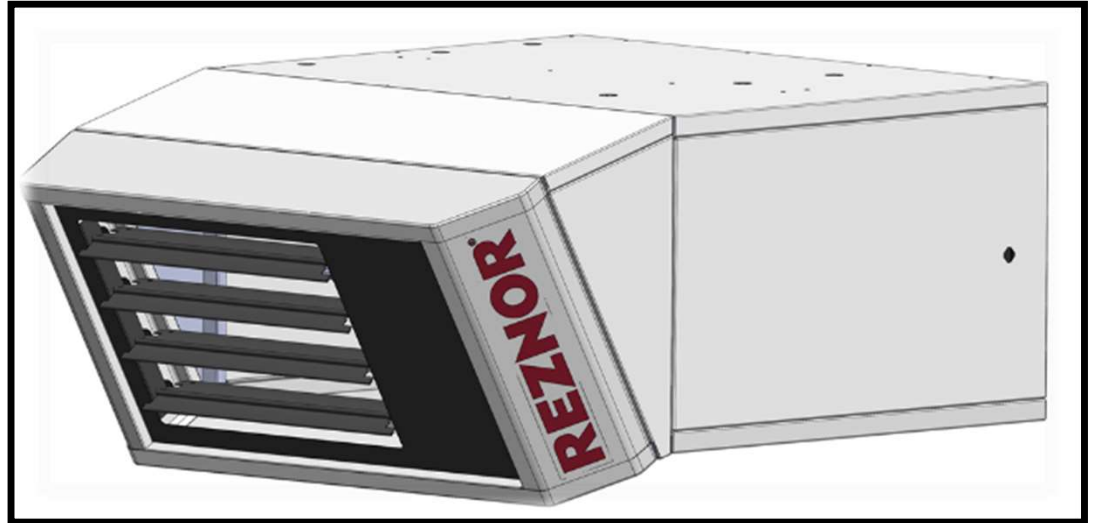
## **EASIER, FASTER, SAFER**

- Easy Screwdriver ¼ Turn Latch
- Hinged Design for Rapid Access
- Completely Removeable for Service in Tight Spaces
- Safety Strap Attaches Door to Unit so it **CAN'T** Fall

# Flexibility to Move Heat Where Needed



Horizontal Louvers standard  
Vertical Louvers optional



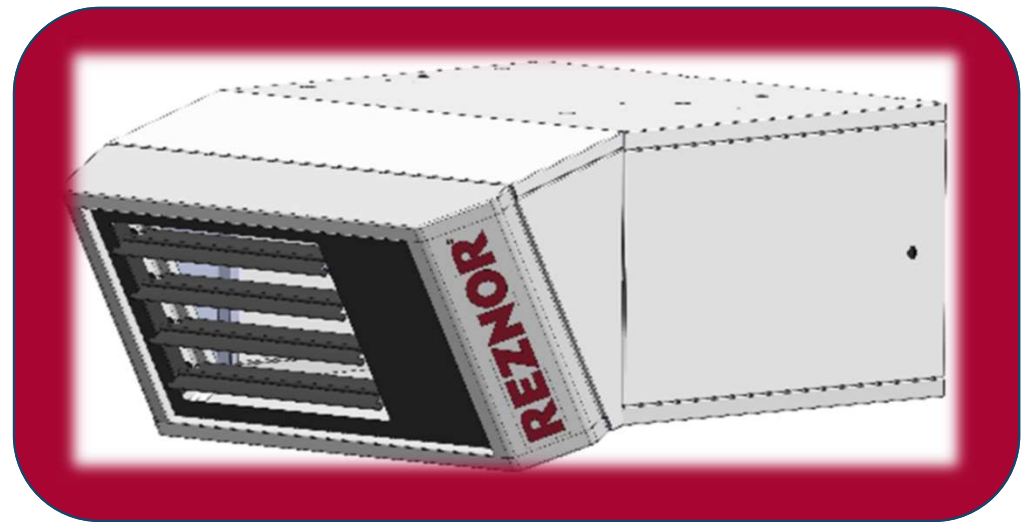
Easily added Downturn Nozzles for partial  
vertical throw  
30° or 60° downturn



# Integrated Downturn Nozzle

## Improved Heat Distribution Control

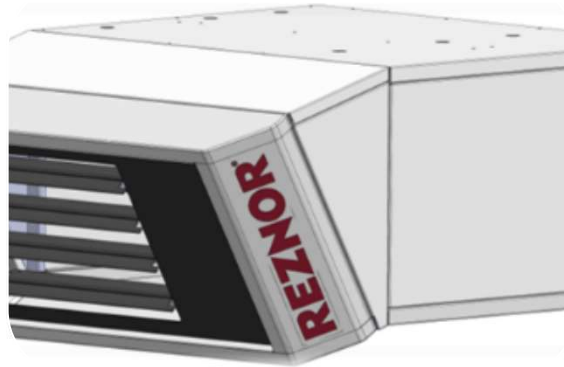
- Nozzle Throws Heat towards Floor Closer to the Unit
- Seamless Integration for High-quality Appearance
- Downturn Capabilities
  - 30°
  - 60°
  - Simply-installed
  - Modular Design



# Professional Modern Styling



Unique, Smooth, Appliance-  
quality Appearance  
Hidden Edges And Fasteners  
Contrasting-color and Recessed  
Front Plate  
Signature “REZNOR” Bevel



Optional Parts Seamlessly  
Integrate into the Cabinet



Contrasting Red Louver  
and Raised REZNOR Logo\*  
Embossed REZNOR Logo  
Underneath and Viewable from  
Floor\*



## Future Unit Heater Product Line-Up

Model	Application	Thermal Efficiency	Capacity	Warranty
<b>UDXC</b>	Power Vented Standard (Optional Separated Combustion)	82-83%	14 Capacities from 30-400 MBH	5 Years Parts & 10 Year Heat Exchanger Warranty
<b>UBXC</b>	Power Vented Standard (Optional Separated Combustion)	82-83%	14 Capacities from 30-400 MBH	
<b>UEZ</b>	Separated Combustion	91-93%	7 Capacities from 55 - 310 MBH	



**Model UDXC**



**Models UBXC**



**Model UEZ**

Nomenclature	Designation
U	Unit Heater
D	82-83% Thermal Efficient with Axial Fan
X	Standard Combustion
C	Standard or Separated Combustion Capable
E	93% Thermal Efficient with Axial Fan
B	82-83% Thermal Efficient with Blower Fan
Z	Separated Combustion



## Unit Heater Simplification



- **NEW UDXC & UBXC** Separated Combustion Capable
  - Simple Field Conversion with Available Kit
  - UDXC Replaces UDX and UDZ in Reznor Portfolio
  - UBXC Replaces UBX and UBZ in Reznor Portfolio



**UEZ**

- **UEZ** High Efficiency Condensing
  - 91-93% Efficient
  - Recently expanded to cover residential opportunities
    - 55, 85, 110, 130, 180, 260, & 310 MBH models

# UEZ

- **High Efficiency Reduces Energy Use & Operating Costs**
  - Often < 2-year Payback
  - Up to 93% Thermal Efficiency
- Separated Combustion
  - **Eliminates** Warm Air Losses through Combustion
- 7 Sizes, 55-310 MBH, Including **3 NEW Sizes**
  - **55, 85, 110**
- All are Rated for Industrial/Commercial heating
- **55-110 are also Rated for Residential Non-living Space Heating**
- MacroChannel® Secondary Heat Exchanger on High Airflow Models for **Reduced Cleaning**



St. Louis: Estimated \$634 annual energy savings with UEZ  
(\$19.44/MCF Natural gas, \$0.113/kW-h)

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# UEZ Key Technical Specifications

- 7 Capacities
  - 55,000-310,000 Btu/h
  - 55-110 Models Residential Cert.
- 91-93% Thermal Efficiency
- 50-60°F Air Temperature Rise
- 967-4,283 CFM using an Axial Fan
- 24V Control
- 180-1,020 Watts Electrical Power Consumption

## TECHNICAL DATA

Parameter	Unit Size						
	055	085	110	130	180	260	310
Input heating capacity (BTUh)	55,000	85,000	110,000	131,000	175,000	260,000	305,000
Input heating capacity (kW)	16.1	24.9	32.2	38.4	51.2	76.1	89.3
Thermal efficiency (%)	93			93	91	92	91
Output heating capacity (BTUh)*	51,150	79,050	102,300	121,830	159,250	239,200	277,550
Output heating capacity (kW)*	15.0	23.2	30.0	35.7	46.6	70.0	81.3
Gas connection, natural (inches)**	1/2			1/2		3/4	
Gas connection, propane (inches)**							
Vent connection diameter (inches)	2			4		4	
Combustion air inlet diameter (inches)				6		6	
Control, 24V (amps)	1.0			1.0		1.0	
Full load amps, 115V (amps)	1.6	2.2	4.4	6.3		10.0	
Maximum overcurrent protection, 115V (amps)***	15.0			15.0		20.0	
Normal power consumption (watts)	180	240	403	657		1020	
Discharge air temperature rise (°F)	50	55		50	60	50	60
Air volume (cfm)	967	1206	1793	2256	2458	4430	4283
Air volume (meters <sup>3</sup> /minute)	27.4	34.2	50.8	63.9	69.6	125.4	121.3
Discharge air opening area (feet <sup>2</sup> )	1.38	1.86	2.24	2.56		4.79	
Discharge air opening area (meters <sup>2</sup> )	0.13	0.17	0.21	0.2		0.5	
Output velocity (fpm)	701	659	800	883	962	924	894
Output velocity (meters/minute)	214	201	244	269	293	282	272
Standard open fan motor size (horsepower)	1/20	1/20	1/6	1/4		1/2	
Optional enclosed fan motor size (horsepower)							
Fan motor speed (rpm)	1050			1050		1050	
Fan diameter (inches)	12	16	18	18		24	
Approximate condensate per hour (gallons)	1/2			1		2	
Approximate condensate per hour (liters)	1.5			3.8		7.6	

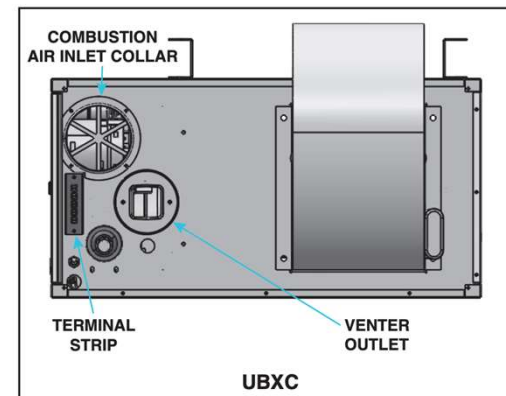
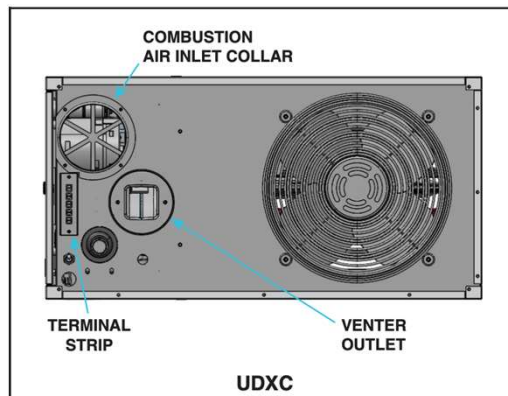
# UDXC/UBXC

- 82-83% Thermal Efficiency
- 30,000-400,000 Btuh in 14 Sizes
- Field Convertible for Separated Combustion (Option SC1 – Separated Combustion Kit)
- LP Kits for all Propane Unit Heater Applications will now be field installed
- UDXC/UBXC Sizes 30-400 Btuh Certified for Commercial/Industrial Heating Applications
- UDXC Sizes 30-125 Btuh Approved for use in Residential Garages and Workshops
- UBXC Satisfies High Airflow Needs in Commercial/Industrial Applications
  - Higher CFM & Increased Static Capable
  - Longer Throw or Duct Capable
  - \Many Motor/Blower Options for the Optimal Solution



# UDXC/UBXC – SC1 Separated Combustion Kit

- SC1 Optional Kit
  - Converts a UDX-C or UBX-C unit from a Power Vented Unit to a Separated Combustion Unit in the field
  - The SC1 Kit includes door seal, door switch, vent adapter gasket & collar for the combustion air inlet of unit
  - Separated Combustion unit heaters require the use of a CC2 Vertical Vent Kit or CC6 Horizontal Vent Kit





# UDXC Key Technical Specifications

- 14 Capacities
  - 30,000-400,000 Btu/h
- 82-83% Thermal Efficiency
- 50-60°F Air Temperature Rise
- 456-5,123 CFM Using Axial Fan
- 24V Control with Common Terminal
- 109-1,086 Watts Electrical Power Consumption

Size	30	45	60	75	100	125
Input Heating Capacity	BTU/h 30,000	45,000	60,000	75,000	105,000	120,000
	kwh 8.8	13.2	17.5	22.0	30.8	35.2
Thermal Efficiency (%)	82	83	83	83	83	83
Output Heating Capacity	BTU/h 24,000	37,500	49,500	62,250	88,500	100,000
	kwh 7.2	11.0	14.6	18.3	26.4	30.2
Gas Connection (inches) <sup>1</sup>	Natural 1/2	1/2	1/2	1/2	1/2	1/2
	Propane 1/2	1/2	1/2	1/2	1/2	1/2
Vent Connection Size <sup>2</sup> (inches diameter)	4	4	4	4	4	4
Control Amps (24 volt)	1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115 volt)	1.9	2.4	2.4	3.7	3.7	3.7
Maximum Over Current Protection (115V)	15	15	15	15	15	15
Normal Power Consumption (watts)	109	102	105	217	217	217
Discharge Air Temperature Rise (°F)	50	50	60	60	60	60
Air Volume	CFM 456	409	399	361	361	361
	Minimum 12.9	17.9	21.8	27.5	27.5	27.5
Discharge Air Opening Area	ft <sup>2</sup> 0.96	0.90	1.25	1.25	1.25	1.25
	MP 0.09	0.09	0.12	0.12	0.12	0.12
Output Velocity	EFM 475	456	456	770	770	770
	Minimum 1.45	200	198	198	198	198
Fan Motor HP <sup>3</sup>	Open 0.02	0.03	0.03	0.06	0.06	0.06
	Enclosed 0.06	0.06	0.06	0.06	0.06	0.06
Fan Motor RPM	1050	1050	1050	1050	1050	1050
Fan Diameter (inches)	10	10	12	12	12	12
Sound Level	dba @ 15 ft 40	40	40	49	49	49
	ft 57	62	71	76	76	76
Approximate Net Weight	lb 26	28	32	34	34	34
	kg 63	68	78	81	81	81
Approximate Ship Weight	lb 29	31	34	37	37	37
	kg 29	31	34	37	37	37

Size	150	175	200	225	250	300	350	400
Input Heating Capacity	BTU/h 150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000
	kwh 43.9	51.2	58.6	65.9	73.2	87.8	102.5	117.1
Thermal Efficiency (%)	83	83	83	83	83	83	83	83
Output Heating Capacity	BTU/h 124,500	145,250	166,000	186,750	207,500	249,000	290,500	332,000
	kwh 36.4	42.5	48.6	54.7	60.8	72.9	85.1	97.2
Gas Connection (inches) <sup>1</sup>	Natural 1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
	Propane 1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
Vent Connection Size <sup>2</sup> (inches diameter)	5	5	5	5	5	6	6	6
Control Amps (24 volt)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115 volt)	3.8	3.8	4.6	7.5	7.5	11.0	11.0	11.0
Maximum Over Current Protection (115V)	15	15	15	15	15	20	20	20
Normal Power Consumption (watts)	382	382	481	747	747	1086	1086	1086
Discharge Air Temperature Rise (°F)	60	60	60	60	60	60	60	60
Air Volume	CFM 1921	2242	2562	2882	3202	3843	4483	5123
	Minimum 54.4	63.5	72.5	81.6	90.7	108.8	126.9	145.1
Discharge Air Opening Area	ft <sup>2</sup> 2.58	2.95	3.36	3.81	4.29	5.19	6.19	7.19
	MP 0.24	0.24	0.24	0.33	0.33	0.45	0.45	0.45
Output Velocity	EFM 752	877	1023	1150	1302	1582	1862	2142
	Minimum 229	267	308	350	392	478	564	650
Fan Motor HP <sup>3</sup>	Open 1/8	1/8	1/8	1/4	1/4	1/2	1/2	1/2
	Enclosed 1/4	1/4	1/4	1/4	1/4	1/2	1/2	1/2
Fan Motor RPM	1050	1050	1050	1050	1050	1050	1050	1050
Fan Diameter (inches)	18	18	18	20	20	24	24	24
Sound Level	dba @ 15 ft 51	52	53	56	56	69	81	92
	ft 176	193	193	211	223	277	303	336
Approximate Net Weight	lb 81	88	88	96	101	126	137	143
	kg 206	221	221	247	259	323	348	360
Approximate Ship Weight	lb 83	90	90	102	107	147	158	163
	kg 83	90	90	102	107	147	158	163



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# UBXC Key Technical Specifications

- 14 Capacities
  - 30,000-400,000 Btu/h
- 82-83% Thermal Efficiency
- 45-80°F Air Temperature Rise
- 304-6,185 CFM Using Belt-drive Blower Fan
- 24V Control with Common Terminal
- 215-1,635 Watts Electrical Power Consumption

Size		30	45	60	75	100	125
Input Heating Capacity	BTUH	30,000	45,000	60,000	75,000	100,000	125,000
	kwh	8.8	13.2	17.6	22.0	29.3	36.6
Thermal Efficiency (%)		82	82	82	82	82	82
		82	82	82	82	82	82
Output Heating Capacity	BTUH	24,600	36,900	49,200	61,500	81,900	102,300
	kwh	7.2	10.8	14.4	18.0	24.1	30.3
Gas Connection (inches) <sup>1</sup>	Natural	1/2	1/2	1/2	1/2	1/2	1/2
	Propane	1/2	1/2	1/2	1/2	1/2	1/2
Vent Connection Size <sup>2</sup> (inches diameter)		4	4	4	4	4	4
		4	4	4	4	4	4
Control Amps (24 volt)		1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115 volt)		3.7	3.7	7.1	7.1	7.1	7.1
		3.7	3.7	7.1	7.1	7.1	7.1
Maximum Over Current Protection (115V) <sup>3</sup>		15	15	15	15	15	15
		15	15	15	15	15	15
Normal Power Consumption (watts)		215	215	447	447	447	447
		215	215	447	447	447	447
Discharge Air Temperature Rise (°F)	Min.	45	45	45	45	45	45
	Max.	75	75	75	75	75	75
Air Volume	Min. CFM	304	456	607	759	1012	1265
	Max. CFM	506	759	1012	1265	1681	2097
Discharge Air Opening Area	Min. M <sup>2</sup>	14.3	21.1	28.7	36.3	48.9	61.5
	Max. M <sup>2</sup>	23.5	35.3	47.1	58.9	78.1	97.3
Output Velocity	Min. FPM	316	475	634	793	1052	1311
	Max. FPM	527	791	1054	1317	1756	2205
Standard Blower Motor HP		1/8	1/8	1/8	1/8	1/8	1/8
		1/8	1/8	1/8	1/8	1/8	1/8
Approximate Net Weight	lbs	84	88	102	108	126	132
	kg	38	40	46	49	57	60
Approximate Ship Weight	lbs	94	99	114	120	140	146
	kg	43	45	52	54	64	67

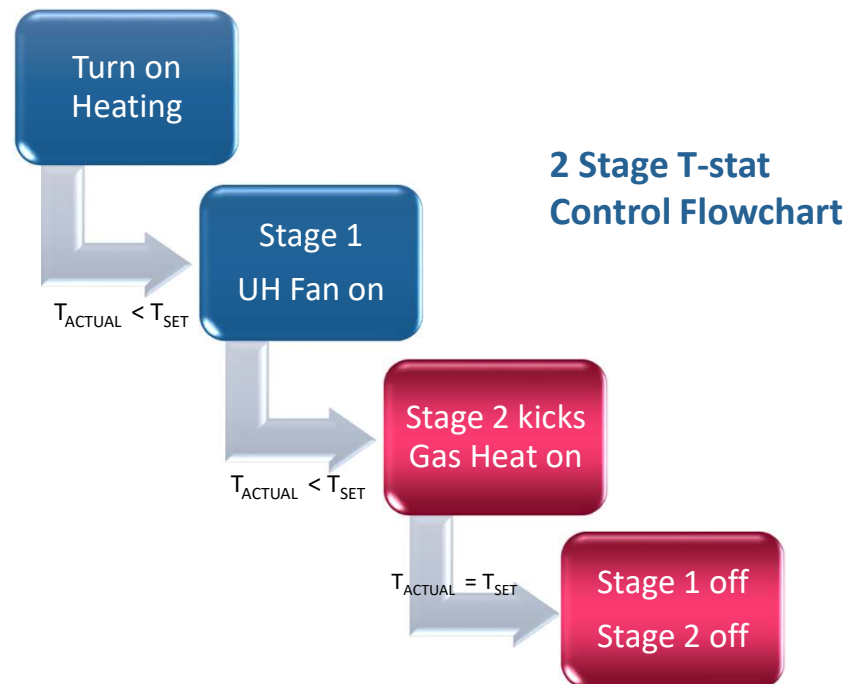
Size		150	175	200	225	250	300	350	400
Input Heating Capacity	BTUH	150,000	175,000	200,000	225,000	250,000	300,000	350,000	400,000
	kwh	43.9	51.2	58.6	65.9	73.2	87.8	102.5	117.1
Thermal Efficiency (%)		83	83	83	83	83	83	83	83
		83	83	83	83	83	83	83	83
Output Heating Capacity	BTUH	124,500	145,250	166,000	186,750	207,500	248,000	290,500	328,000
	kwh	36.4	42.5	48.6	54.7	60.8	72.9	85.1	96.0
Gas Connection (inches) <sup>1</sup>	Natural	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
	Propane	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
Vent Connection Size <sup>2</sup> (inches diameter)		5	5	5	5	5	6	6	6
		5	5	5	5	5	6	6	6
Control Amps (24 volt)		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Full Load Amps (115 volt)		5.9	6.6	7.3	8.0	8.7	10.5	12.2	13.9
		5.9	6.6	7.3	8.0	8.7	10.5	12.2	13.9
Maximum Over Current Protection (115V) <sup>3</sup>		15	20	25	30	30	40	60	80
		15	20	25	30	30	40	60	80
Normal Power Consumption (watts)		230	415	485	675	675	1260	1635	1635
		230	415	485	675	675	1260	1635	1635
Discharge Air Temperature Rise (°F)	Min.	45	45	45	45	45	45	45	45
	Max.	75	75	75	75	75	75	75	80
Air Volume	Min. CFM	1537	1793	2049	2306	2562	3074	3586	4100
	Max. CFM	2562	2989	3416	3843	4270	5123	5977	6831
Discharge Air Opening Area	Min. M <sup>2</sup>	72.5	84.6	96.7	108.8	120.9	145.1	169.2	193.3
	Max. M <sup>2</sup>	120.9	145.1	169.2	193.3	217.4	264.6	311.8	359.0
Output Velocity	Min. FPM	600	700	800	900	1000	1200	1400	1600
	Max. FPM	1001	1168	1334	1500	1667	2000	2333	2667
Standard Blower Motor HP		1/4	1/2	1/2	3/4	3/4	1-1/2	2	2
		1/4	1/2	1/2	3/4	3/4	1-1/2	2	2
Blower Size (inches)		12 x 12	12 x 12	12 x 12	15 x 11	15 x 11	15 x 15	15 x 15	15 x 15
		12 x 12	12 x 12	12 x 12	15 x 11	15 x 11	15 x 15	15 x 15	15 x 15
Approximate Net Weight	lbs	300	320	320	385	400	458	494	506
	kg	136	145	145	175	181	208	224	230
Approximate Ship Weight	lbs	322	342	342	409	424	484	520	526
	kg	146	155	155	186	192	220	236	240



**REZNOR®**

# Highly Customizable Controls

- Single or 2 stage gas heating
- Control type options:
  - Single stage Wall Thermostat
    - Standard temperature control
    - Programmable and *Wi-Fi-enabled* stats available
  - 2-stage T-stat control
    - Using 2 stage thermostat
      - 1<sup>st</sup> stage fan starts
      - 2<sup>nd</sup> stage unit heaters start
  - Multi-unit control
    - Control up to 5 units with single thermostat
    - Option CL 31
      - enables 4 additional remote units which are option CL32





# Tailored Performance for All Needs

## High Efficiency Condensing Models

- Up to 93% Thermal Efficiency for Long-term Energy Savings
- Fan-only Operation for Air Circulation with 2-stage Tstat
- Multiple Unit Control Options

## 14 Capacities with 82-83% Models

- Economically & Precisely Heat the Space
- Distribute Heat Evenly with More Lower Capacity Units

## Field Convertible to Separated Combustion

- Utilizes Outside Air for Combustion for Safety
- Use for Harsh Environments or where you need outside air for combustion
- Reduces Heat Losses for Building Energy Conservation

# REZNOR Makes Your Choice Simple

## Unique Features

### 1. Easy to Install

- Easy Access to Connections
- Easy Access to Documentation
- Multiple Unit Control

### 2. Easy to Maintain/Service

- Quick & Easy to Access Controls
- Easy to Troubleshoot

### 3. Clean, Professional Look

- Smooth Modern Design Features
- Integrated Options

## High Performance Benefits

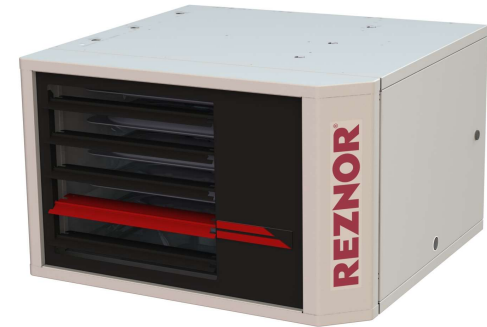
- Reduced Installation Cost
- Reduced Installation Materials
- Reduced Installation Errors

- Reduced Downtime
- Reduced Service Costs
- Reduced Service Error

- Reduced Safety Incidents
- Increased Owner Satisfaction
- Increased Contractor Reputation



# REZNOR Advantages



- **Warranty**

- 10-year heat exchanger warranty
- 5-year electrical & mechanical parts
- Non-prorated warranty for residential and commercial installations
- Registration of warranty is not required

- **Other Advantages**

- Highest efficiency unit heaters in its class 82-83% or 93% thermal efficiency
- Wi-Fi thermostat compatible with standard C-Terminal.
- Aesthetically pleasing modern cabinet design.

**Thank You!**