

## IMPORTANT

1. Always include complete heater model and serial number so that any specification change can be considered for parts replacement. It can save time and expense.
2. Specifications are subject to change without notice.
3. We reserve the right to substitute functional replacements
4. Order by P/N; not Heater Option Designation.

## Replacement Parts for V3® Series Model UDAP, UDAS, UDBP, and UDBS Unit Heaters

### Model UDAP Power Vent, Fan Type

### Model UDAS Separated Combustion, Fan Type



### Model UDBP Power Vent, Blower Type

### Model UDBS Separated Combustion, Blower Type



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## Warranty - Models UDAP, UDAS, UDBP, and UDBS

One-year limited warranty on the heater.



Nine-year extended limited warranty on the heat exchanger, burner, and flue collection box assembly.

Four-year extended limited warranty on all electrical and mechanical operating components (with the exception of blower belts).



Contact your distributor for details.

## Rating Plate and Serial No.

### Example of a Rating Plate, Model UDAP

<b>REZNOR®</b> MERCER, PA. USA 16137 MADE IN MEXICO		 NRTL	
<b>UNIT HEATER</b> <b>CATEGORY [ Z ]</b> ANSI Z83.8 [ A ] CSA 2.6 [ A' ] UNIT HEATER CSA .10.96 U.S. (2nd Ed.) UNIT HEATERS FOR RESIDENTIAL INSTALLATION <b>MODEL [ B ] [ C ]</b> <b>SERIAL NO.</b> [ D ] VOLTS [ D ] PH [ D ] HZ MAXIMUM TOTAL INPUT [ D ] AMPS <b>TYPE OF GAS: [ E ]</b> FOR USE AT 0-2000 FEET, 0-610 METERS OF ALTITUDE. ORIFICE SIZE [ F ] DRILL HAS BEEN FACTORY ADJUSTED SEA LEVEL NORMAL INPUT [ J ] BTU/HR THERMAL OUTPUT CAPACITY [ L ] BTU/HR MINIMUM INPUT(-2 MODELS) [ M ] BTU/HR NORMAL MANIFOLD PRESSURE [ G ] IN.W.C. MIN. PERMISSIBLE GAS SUPPLY PRESSURE FOR PURPOSE OF INPUT ADJUSTMENT. [ H ] IN.W.C.			
CLEARANCES TO COMBUSTIBLE CONSTRUCTION: TOP-[ N ] ", FLUE CONNECTION-6", CONTROL SIDE-18", OPP. SIDE-[ P ] ", BOTTOM-1", FRONT-36". FOR ALTERNATE INSTALLATIONS USE THE LATEST EDITIONS OF THE APPROPRIATE STANDARD LISTED BELOW: FOR AIRCRAFT HANGARS USE STANDARD ANSI/NFPA 409 FOR PARKING STRUCTURES USE STANDARD ANSI/NFPA 88A FOR REPAIR GARAGES USE STANDARD ANSI/NFPA 88B THIS UNIT IS NOT FOR USE WITH DUCTS. THIS UNIT IS NOT FOR USE WITH FILTERS. IN THE EVENT THE FLAME ROLLOUT SENSOR CAUSES THE HEATER TO SHUT OFF, DETERMINE AND CORRECT THE CAUSE. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DEATH. TO RESET, DEPRESS THE BUTTON ON THE SENSOR LOCATED ON THE BURNER BOX ASSEMBLY.			

### Example of a Rating Plate, Model UDBP

<b>REZNOR®</b> MERCER, PA. USA 16137 MADE IN MEXICO		 NRTL	
<b>UNIT HEATER</b> <b>CATEGORY [ Z ]</b> ANSI Z83.8 [ A ] CSA 2.6 [ A' ] UNIT HEATER <b>MODEL [ B ] [ C ]</b> <b>SERIAL NO.</b> [ K ] HP [ D ] VOLTS [ D ] PH [ D ] HZ MAXIMUM TOTAL INPUT [ D ] AMPS <b>TYPE OF GAS: [ E ]</b> FOR USE AT 0-2000 FEET, 0-610 METERS OF ALTITUDE. ORIFICE SIZE [ F ] DRILL SEA LEVEL NORMAL INPUT [ J ] BTU/HR THERMAL OUTPUT CAPACITY [ L ] BTU/HR MINIMUM INPUT(-2 MODELS) [ M ] BTU/HR NORMAL MANIFOLD PRESSURE [ G ] IN.W.C. MIN. PERMISSIBLE GAS SUPPLY PRESSURE FOR PURPOSE OF INPUT ADJUSTMENT. [ H ] IN.W.C. TEMPERATURE RISE RANGE FROM [ Q ] DEG. F. TO [ R ] DEG. F. MAXIMUM EXTERNAL STATIC PRESSURE [ S ] IN. W.C.			
CLEARANCES TO COMBUSTIBLE CONSTRUCTION: TOP-[ N ] ", FLUE CONNECTION-6", CONTROL SIDE-18", OPP. SIDE-[ P ] ", BOTTOM-1", FRONT-36" FOR ALTERNATE INSTALLATIONS USE THE LATEST EDITIONS OF THE APPROPRIATE STANDARD LISTED BELOW: FOR AIRCRAFT HANGARS USE STANDARD ANSI/NFPA 409 FOR PARKING STRUCTURES USE STANDARD ANSI/NFPA 88A FOR REPAIR GARAGES USE STANDARD ANSI/NFPA 88B INSTALLATION OF THIS UNIT IN AIRCRAFT HANGERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCING AUTHORITIES AND IN PUBLIC GARAGES IN ACCORDANCE WITH THE CAN/CGA-B149 (.1 OR .2 ) CODES. THIS UNIT IS NOT FOR USE WITH FILTERS. THIS UNIT MAY BE USED WITH DUCTS.			

### Rating Plate Key:

<b>A</b>	Date of ANSI Standard	<b>K</b>	Blower Motor Horsepower
<b>A'</b>	Date of CSA Standard	<b>L</b>	BTU Thermal Output Sea Level
<b>B</b>	Model No.	<b>M</b>	BTU Minimum Input Sea Level
<b>C</b>	Month and Year of Manufacture	<b>N</b>	Top Clearance
<b>D</b>	Voltage, Phase, 60 Hertz, Maximum Total Input Amps	<b>P</b>	Left Side Clearance
<b>E</b>	Natural Gas or Propane	<b>Q</b>	Temperature Rise From (°F)
<b>F</b>	Orifice Size	<b>R</b>	Temperature Rise To (°F)
<b>G</b>	Manifold Pressure (3.5" w.c. Natural Gas; 10" w.c. Propane)	<b>S</b>	Maximum External Static Pressure (inches w.c.)
<b>H</b>	Minimum Gas supply Pressure (5.0" w.c. Natural Gas; 11.0" w.c. Propane)	<b>Z</b>	Category
<b>J</b>	BTU Normal Input Sea Level		

**Decoding a Serial No.**

<b>Example of a Serial No. BLK 79 6E N 00000</b>					
<b>CODE Nos.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>CODE No.</b>	<b>Explanation</b>				
<b>1</b>	Date of manufacture (see below)				
<b>2</b>	Type of ignition system				
<b>3</b>	Type of gas valve				
<b>4</b>	Gas (N = natural; L = propane)				
<b>5</b>	Consecutive number (identification only)				

**First Element of the Serial Number - Date of Manufacture**

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2002	BBA	BBB	BBC	BBD	BBE	BBF	BBG	BBH	BBI	BBJ	BBK	BBL
2003	BCA	BCB	BCC	BCD	BCE	BCF	BCG	BCH	BCI	BCJ	BCK	BCL
2004	BDA	BDB	BDC	BDD	BDE	BDF	BDG	BDH	BDI	BDJ	BDK	BDL
2005	BEA	BEB	BEC	BED	BEE	BEF	BEG	BEH	BEI	BEJ	BEK	BEL
2006	BFA	BFB	BFC	BFD	BFE	BFF	BFG	BFH	BFI	BFJ	BFK	BFL
2007	BGA	BGB	BGC	BGD	BGE	BGF	BGG	BGH	BGI	BGJ	BGK	BGL
2008	BHA	BHB	BHC	BHD	BHE	BHF	BHG	BHH	BHI	BHJ	BHK	BHL
2009	BIA	BIB	BIC	BID	BIE	BIF	BIG	BIH	BII	BIJ	BIK	BIL
2010	BJA	BJB	BJC	BJD	BJE	BJF	BJG	BJH	BJI	BJJ	BJK	BJL
2011	BKA	BKB	BKC	BKD	BKE	BKF	BKG	BKH	BKI	BKJ	BKK	BKL
2012	BLA	BLB	BLC	BLD	BLE	BLF	BLG	BLH	BLI	BLJ	BLK	BLL
2013	BMA	BMB	BMC	BMD	BME	BMF	BMG	BMH	BMI	BMJ	BMK	BML
2014	BNA	BNB	BNC	BND	BNE	BNF	BNG	BNH	BNI	BNJ	BNK	BNL
2015	BOA	BOB	BOC	BOD	BOE	BOF	BOG	BOH	BOI	BOJ	BOK	BOL
2016	BPA	BPB	BPC	BPD	BPE	BPF	BPG	BPH	BPI	BPJ	BPK	BPL
2017	BQA	BQB	BQC	BQD	BQE	BQF	BQG	BQH	BQI	BQJ	BQK	BQL
2018	BRA	BRB	BRC	BRD	BRE	BRF	BRG	BRH	BRI	BRJ	BRK	BRL
2019	BSA	BSB	BSC	BSD	BSE	BSF	BSG	BSH	BSI	BSJ	BSK	BSL
2020	BTB	BTB	BTC	BTB	BTE	BTB	BTG	BTH	BTI	BTJ	BTK	BTL

**References****Printed Forms** (Request by Form designation; not P/N.).....**Form** .....**P/N**

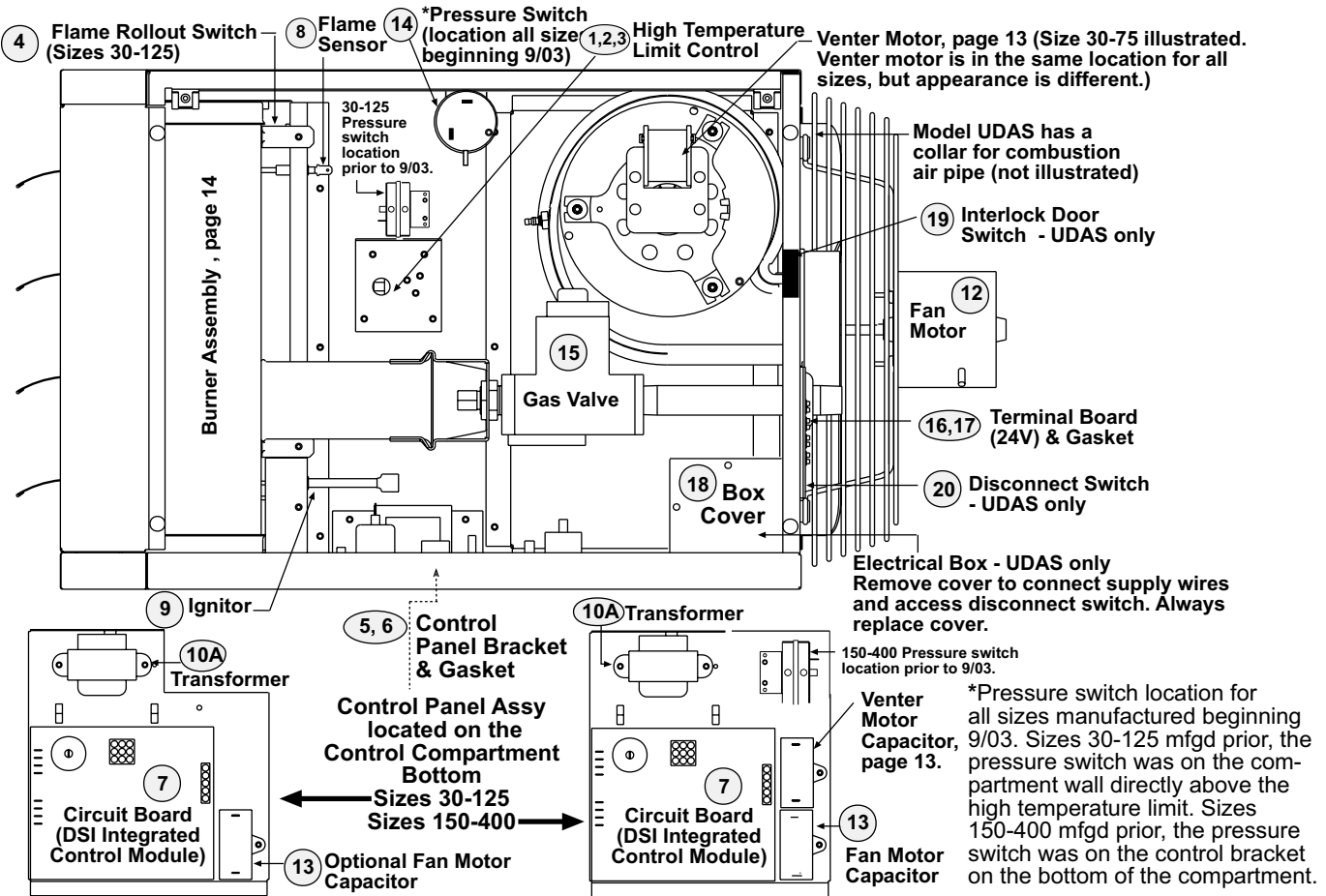
Installation/Operation/Maintenance - All UDAP and UDAS ..... I-UDA ..... 195673  
 Installation/Operation/Maintenance - All UDBP and UDBS ..... I-UDB ..... 202658  
 Venting Installation - Models UDAP and UDBP ..... I-UD-V-PV ..... 195675  
 Venting Installation - Model UDAP-CV with Option AV6 (common vent) ..... I-UD-V-CV ..... 195677  
 Venting Installation - Models UDAS and UDBS ..... I-UD-V-SC ..... 195676  
 Gas Conversion ..... CP-UD-GC ..... 197209  
 High Altitude (above 6000 ft) ..... I-UD-HA ..... 197081  
 Serial No., Valves, and Ignition Contrlos ..... P-VALVES ..... 263995

**Website** (Forms are available for downloading.)

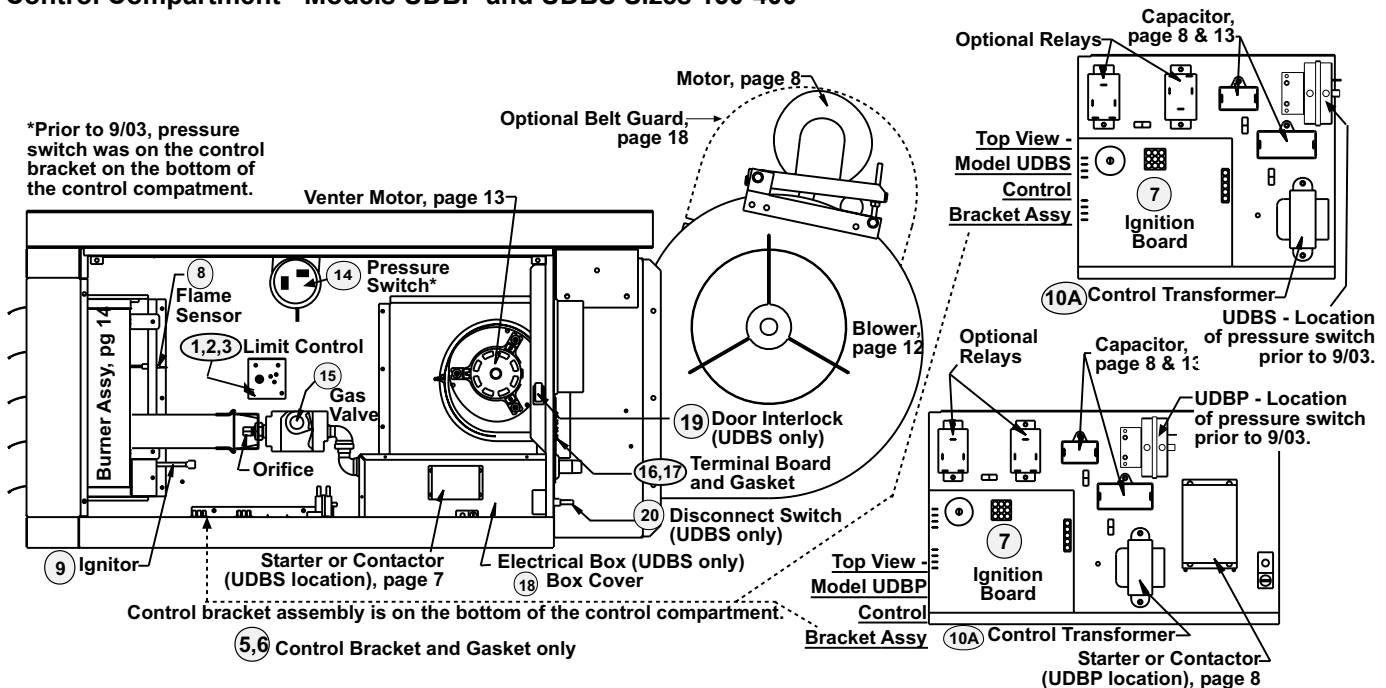
[www.RezSpec.com](http://www.RezSpec.com)

**Electrical Components** - Location, Quantity (Quantities other than one are listed in parenthesis.), and P/N (see page 6 for photos)

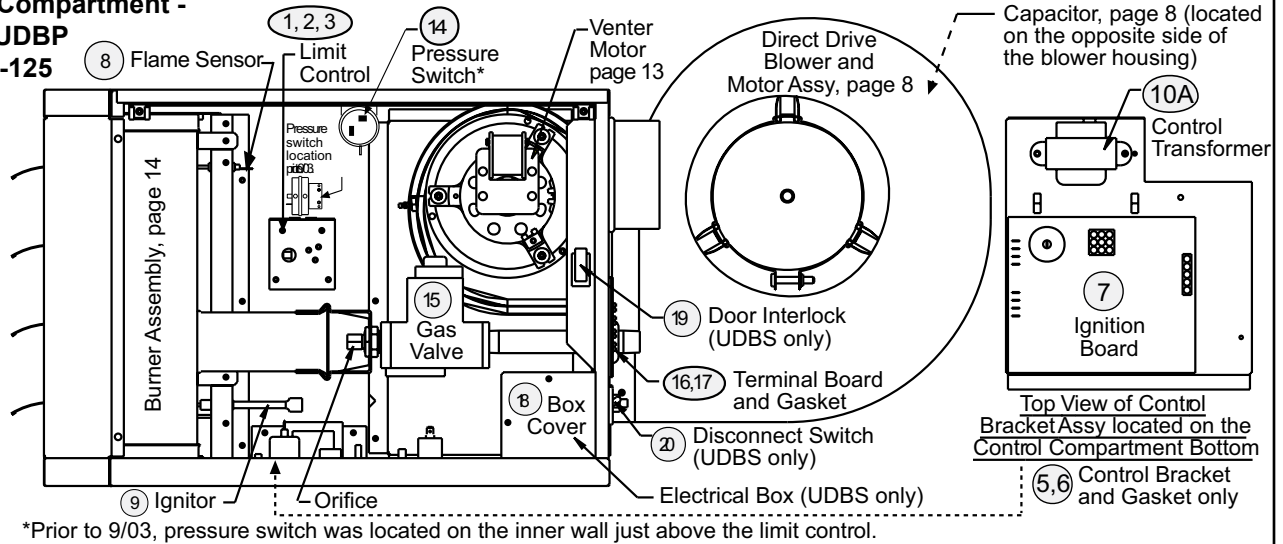
## Control Compartment - Models UDAP and UDAS Sizes 30-400



### Control Compartment - Models UDBP and UDBS Sizes 150-400



# Control Compartment - Models UDBP Sizes 30-125



\*Prior to 9/03, pressure switch was located on the inner wall just above the limit control.

Code	Description	Model	30	45	60	75	100	125	150	175	200	225	250	300	350	400
1A	High Temperature Limit Control, Auto Reset (NOTE: Color listed is the color of the identifying dot on the limit control label. "None" indicates no colored dot on the label.)	UDAP/UDAS	96512, 220°F, Blue		45602, 180°F, None			85449, 200°F, Yellow	45602, 180°F, None	82091, 160°F, Red	45602, 180°F, None	82091, 160°F, Red	45602, 180°F, None	85449, 200°F, Yellow	45602, 180°F, None	
		UDBP/UDBS	201961, 275°F, Green	96512, 220°F, Blue	85449, 200°F, Yellow		96512, 220°F, Blue	201961, 275°F, Green	45602, 180°F, None	202048, 240°F, Silver	45602, 180°F, None	201962, 250°F, Orange	202048, 240°F, Silver	85449, 200°F, Yellow		
1B	High Temperature Limit Control, Auto Reset - UDAP w/Opt AL2B	UDAP-45LN (low noise)	N/A	85449, 200°F, Yellow												
2	Limit Control Plate	All														
3	Limit Control Bracket	UDAP/UDAS														
		UDBP/UDBS														
4	Flame Rollout Switch, Manual Reset	UDAP/UDAS	197033, 210°F / -31°F, Violet Dot	196949, 225°F / -31°F, Red Dot				196950, 250°F / -31°F, Yellow Dot	--	--	--	--	--	--	--	--
5	Control Mounting Bracket	UDAP/UDAS		195551										195294		
		UDBP		195551										202736		
		UDBS		195551										195294		
6	Cntrl Mounting Bracket Gasket	All		195664										195669		
7	Circuit Board (DSI Ignition Cntrl)	All														
7A	Fuse for Circuit Board	All														
8	Flame Sensor	All														
9	Ignitor (Electrode Assy)	All														
10A	Transformer	UDAP/UDAS														
	115V	All*														
	208V-230V/1ph															
	208V-230V/3ph															
10B	Xformer w/ Opts D10/14 DDC Cntrls	UDAP/UDAS														
**		150-400 with Opt D10&D14														
11	Stepdown Transformer	UDAP/UDAS														
	480V supply-120V															
	575V supply-120V															
12A	Fan Motor (See spacing, pg 6.)	UDAP/UDAS														
	115V Open		196240	196241	196242	196243	196244		196245		196246			196247		
	115V TEFC (AL14)															
	***208/230V Open															
12B	Fan Mtr 115V w/Opt AL2B	UDAP45-LN	N/A	203030												
13	Fan Motor Capacitor	115V	--	--	--			195642 (on units manufactured beginning 2/2011)						195643, 7.5 mfd		
	208/230V		--	--	--	--	--							195643, 7.5 mfd		
	115Vw/AL14		--	--	--	--	--	195642, 5 mfd						195643, 7.5 mfd		
14	Pressure Switch, 0 to 6000 ft (Above 6000 ft, see kits on page 16.)	UDAP-CV ****	197028, .65" w.c., Yellow	196388, .50" w.c., Orange	197029, .60" w.c., Light Blue	196362, .55" w.c., White										
	NOTE: Color listed is the identifying color of the pressure switch label.	UDAP	197030, .40" w.c., Green		196388, .50" w.c., Orange		197030, .40" w.c., Green							201158, 1.10" w.c., Blue		
		UDAS		197028, .65" w.c., Yellow		196362, .55" w.c., White	197032, .45" w.c., Pink	197030, .40" w.c., Green					201158, 1.10" w.c., Blue		201158, 1.10" w.c., blue, on Sizes 350 & 400 mfgd beginning 7/23/2009.	
		UDBP	197030, .40" w.c., Green		196388, .50" w.c., Orange		197030, .40" w.c., Green						201158, 1.10" w.c., Blue		201159, 1.40" w.c., red, Sizes 350 & 400 mfgd prior to 7/23/2009	
		UDBS	197030, .40" w.c., Green	196388, .50" w.c., Orange	197029, .60" w.c., Lt Blue	196388, .50" w.c., Orange	197030, .40" w.c., Green	197032, .45" w.c., Pink	197030, .40" w.c., Green				201158, 1.10" w.c., Blue			
15	Gas Valve	Natural, 1-Stage														
	Propane, 1-Stage															
	Natural, 2-Stage															
	Propane, 2-Stage															
16	Terminal Board (24V), 4 pole	All														
17	Terminal Board Gasket															
18	Electrical Box Cover															
19	Door Switch	UDAS and UDBS only														
20	Disconnect Switch															
21	Wiring Harness with 9 pin Terminal	UDAP/UDAS	197148		197199		197149		201417		201418			201419		
		UDBP/UDBS	203523		203524		203525		203526		203527			203528		
22	Wiring Harness w/ 5 pin Terminal	All														

\*\* For location, see page 7. \*\*\*When inventory of the 208/230V fan motors is depleted, they will no longer be available as replacement parts. A replacement 115V motor and the installation of a stepdown transformer kit (Opt CG1 or 2, page 7) will be required. Check with your distributor for availability. \*\*\*\*Model UDAP-CV is a Model UDAP with factory-installed Common Vent Option AV6



## Electrical Components - See locations on pages 4 and 5.

**CODE 1 - High Temperature Limit Control, Auto Reset**  
**P/N 45602**, 180°F, No Dot  
**P/N 85449**, 200°F, Yellow Dot  
**P/N 96512**, 220°F, Blue Dot  
**P/N 202048**, 240°F, Silver Dot  
**P/N 201962**, 250°F, Orange Dot  
**P/N 201961**, 275°F, Green Dot



Bracket, **P/N 170026**  
 Plate, **P/N 170025**

**CODE 4 - Flame Rollout Switch, Manual Reset**



UDAP/UDAS 30, **P/N 197033**, 210°F, Violet Dot  
 UDAP/UDAS 45, 60, 75, **P/N 196949**, 225°F, Red Dot  
 UDAP/UDAS 100, 125, **P/N 196950**, 250°F, Yellow Dot

**CODE 7 - Circuit Board (DSI Ignition Control), P/N 195265, UTC 1097-210**



To replace fuse, use **P/N 201685** or a field supplied Type ATC or ATO 3 amp fuse, Color Code Violet

**CODE 8 - Flame Sensor, P/N 195292**



**CODE 9 - Ignitor (Electrode Assembly), P/N 175272**



**CODE 10 - Transformer**



115V-25VA, **P/N 175265**  
 115V-40VA, **P/N 194808**  
 208/230V-40VA, **P/N 194536**

**CODE 11 - Stepdown Transformer**



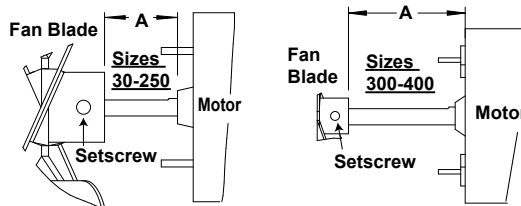
460V-120V, 1/2 KVA (500VA), **P/N 11100**  
 575V-120V, **P/N 202056**  
 (Stepdown transformer is not in the control compartment; it hangs on the outside of the heater cabinet.)

**CODE 12 - Fan Motor**



See motor application and P/N's on page 5.  
 For fan blade P/N's, see page 11.

**Fan Blade/ Motor Spacing by Unit Size and Type of Fan Guard**



UDAP/UDAS Size	A = Fan Spacing				Setscrew Torque (in/lbs ±10)
	Standard Wire Fan Guard with .5" (13mm) Spacing		Option AZ8 Wire Fan Guard with .334" (8.5mm) Spacing		
30	1"	25 mm	1"	25 mm	80
45	9/16"	14 mm	1-1/16"	27 mm	
45-LN	3/4"	19 mm	N/A		
60	1-1/2"	38 mm	1-3/4"	44 mm	
75	2-1/8"	54 mm	1-1/2"	38 mm	
100	2-3/8"	60 mm	2-3/8"	60 mm	120
125	2-5/16"	59 mm	2-1/8"	54 mm	
150	2-3/8"	60 mm	N/A		130
175	2-1/8"	54 mm			
200	1-5/8"	41 mm			
225/250/300	2"	51 mm			
350	1-7/8"	48 mm			
400	1-3/8"	35 mm			

**CODE 13 - Fan Motor Capacitor**



**CODE 14 - Pressure Switch, H/W #IS2**



See application and P/N's on page 5. For high altitude (above 6000 ft), see page 16.

**CODE 15 - Gas Valve**

**Single-Stage Gas Valves**



P/N	Serial No. Code	Replacement for Serial No. Code
196981	Y3 or Z8	
196983	Y5 or 1A	
260603	6E	Y2, Z7, X7, or Z3
263999	9E	Y4, Z9, X9, or Z5



See application by P/N, Type, and Size on page 5.  
 See Serial No. Decoding on page 3.

**Two-Stage Gas Valve**



P/N	Serial No. Code	Replacement for Serial No. Code
197066	Y8 or 4A	X8 or Z4
197067	Y9 or 5A	
197064	Y6 or 2A	Y1 or Z6
197065	Y7 or 3A	

**CODE 16 - Terminal Board, 24V, 4 pole, P/N 196813**



**CODE 17 - Terminal Board Gasket for UDAS and UDBS, P/N 196327**

**CODE 19 - Interlock Door Switch, UDAS and UDBS, P/N 217262**



**CODE 20 - Disconnect Switch, UDAS and UDBS**



DDC Controller, P/N 207944, and other components used in Option D10 and Option D14 (D14 requires field-provided sensor) - applies to Sizes 150-400

CODE	P/N	Description
21A	207944	Novar Controller, Model Minio 737200000
21B	207945	Novar Discharge Sensor Model 712007000DTS 30 (Option D10 only)
22	208069	Controller Bracket
23	195669	Gasket
24	18549	Relay, Heat (W/R 90-370)
	Order Kit <b>P/N 263527</b> if replacing relay P/N 98118 (WR 134-20102-101)	

Code 21A, Novar Controller (mounts on the inside wall of the control compartment)

CODE 24 - Relay

CODE 10B - Transformer  
(See page 5.)

CODE 22 - Bracket  
CODE 23 - Gasket



CODE 25 -  
Stepdown  
Transformer Kits  
(Same as Options  
CG1, CG2, CG4)



Stepdown  
Transformer

For Model UDAP or UDAS	30	45, 60, 75, 100	125, 150, 175, 200	225, 250	300, 350, 400
Option CG1 (208 to 120V)	260919	260920	260921	260922	260923
includes Transformer (P/N, kva)	260927, .25	260928, .50	260929, .75	223462, 1.0	260930, 1.5
Option CG2 (230 to 120V) and Option CG4 (460 to 120V)	197150	197151	197152	197153	197154
includes Transformer (P/N, kva)	11279, .25	11100, .50	11217, .75	16065, 1.0	197085, 1.5
All UDAP/UDAS Option CG1, CG2, and CG4 Kits listed above include the following parts:					
Transformer Bracket	197079			197080	
Transformer Bracket Gasket	236155				
Hex Head Cap Screw	32253, 3/8 x 1" lg				
3/8" Lock Washer	5197				
3/8" Flat Washer	6593				
BX Cable, 3/8"	45097, 38"	174394, 46"	63292, 49"	10460, 56"	201465, 70"
Black wire 14 gauge, 105°C	32520, 54"	7208, 62"	123150, 65"	48862, 72"	201466, 86"
White wire 14 gauge, 105°C	201243, 54"	201242, 62"	123152, 65"	48861, 72"	201467, 86"
Green wire 14 gauge, 105°C	201241, 54"	201240, 62"	201468, 65"	201462, 72"	201469, 86"
Anti-Short Bushing	(2) 16358				
Straight Connector	16199				
90° Connector	1417, T&B #XC-290				
Cable Clamp, 1/2"	16227, Heyco #3328				
Sheetmetal Screws	(3) 11813, #10 x 1/2"				
Wire Connector 73B	(10) 16354, Ideal #3-0253				

**NOTE:** For stepdown transformer for **UDBP** or **UDBS** with **460V** or **575V**, see CODE 11, page 6.

For Model UDBP or UDBS	30, 45	60, 75	100, 125
Option CG1 (208 to 120V)	260924	260925	260926
includes Transformer (P/N, kva)	260928, .50	223462, 1.0	260931, 2.0
Option CG2 (230 to 120V) and Option CG4 (460 to 120V)	202976	202977	202978
includes Transformer (P/N, kva)	11100, .50	16065, 1.0	202979, 2.0
<b>All UDBP/UDBS Option CG1, CG2, and CG4 Kits listed above include the following parts:</b>			
Transformer Bracket	197079		
Transformer Bracket Gasket	236155		
BX Cable, 3/8", (length in inches)	45097, 38"	174394, 46"	63292, 49"
Black wire 14 gauge, 105°C, (length in inches)	32520, 54"	7208, 62"	123150, 65"
White wire 14 gauge, 105°C, (length in inches)	201243, 54"	201242, 62"	123152, 65"
Green wire 14 gauge, 105°C, (length in inches)	201241, 54"	201240, 62"	201468, 65"
Anti-Short Bushing	(2) 16358		
Straight Connector, T&B #302	16202		
90° Connector, T&B #XC-290	1417		
Cable Clamp, 1/2" Heyco #3328	16227		
Sheetmetal Screws	(3) 11813		
Wire Connector 73B	(10) 16354		

## Blower Motor, Capacitor, Starter, and Contactor

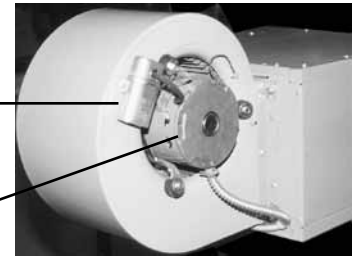
### Model UDBP and UDBS Sizes 30-125

Code	Description	30	45	60	75	100	125
26	Direct Drive Motor Assembly	202731		202732		202733	
26A	Motor	201760		201761		201762	
		1/6 HP		1/3 HP		3/4 HP	
26C	Motor Band	51221					
26D	Support Arm	(3) 51223				(3) 220629	
26E	Hex Head Cap Screw 1/4" - 20 X 1-1/2" long	51231					
26F	1/4" - 20 Nut (Keps)	7328					
26G	BX Cable, 3/8"	2889, 30"				174387, 43"	
26H	Anti-Short Bushing	(2) 16358					
27	Blower Motor Capacitor, 370V	101917		101918		201763	
		5MFD		7.5MFD		15MFD	
28A	Capacitor End Cap	82113					
28B	Capacitor Strap Bracket	82114					

### CODE 26 - Direct Drive Motor

### CODE 27- Motor Capacitor

### CODE 26A - Motor



### CODE 29 - Belt Drive Blower Motor



### CODE 30 and 31 - Motor Starter and Overload



### CODE 32 - Blower Motor Contactor

Motors that don't list a contactor require a starter.  
If a contactor is listed below, starter is optional.



### Model UDBP and UDBS Sizes 150-400 -

### CODE 29 - Belt Drive Motor; CODE 30 - Starter Overload; CODE 31 - Motor Starter; CODE 32 - Contactor

Motors that don't list a contactor require a starter. If a contactor is listed, starter is optional.

MOTOR Type	HP	Mfr Model No.	Reznor® P/N	Volt	ph	FLA	Frame	Shaft	Service Factor	Power Factor	Efficiency	OVERLOAD				STARTER		CONTACTOR	
												min	max	GE #	P/N	GE #	P/N	GE #	P/N
Open	1/4	BF2024	210611	120	1	4.6	48/56	1/2	1.35			4.00	6.30	RTA1-L	151191	CL00A310T-J	151146	42AF35AF	119626
Open	1/4	BF2024	210611	208	1	2.3	48/56	1/2	1.15	63	59.0%	1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	42AF35AG	119627
Open	1/4	BF2024	210611	240	1	2.3	48/56	1/2	1.15	63	59.0%	1.80	2.70	RTA1-J	151189	CL00A310T-S	151147	42AF35AG	119627
Open	1/4	M3003	115864	208	3	1.1	K48	1/2	1.35	72	74.0%	1.00	1.50	RTA1-G	151187	CL00A310T-L	151150	-	-
Open	1/4	M3003	115864	240	3	1.4	K48	1/2	1.35	72	74.0%	1.00	1.50	RTA1-G	151187	CL00A310T-S	151147	-	-
Open	1/4	M3003	115864	480	3	0.75	K48	1/2	1.35	72	81.0%	0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
Open	1/3	BF2034	202091	120	1	6.0	48/56	1/2	1.35			4.00	6.30	RTA1-L	151191	CL00A310T-J	151146	42AF35AF	119626
Open	1/3	BF2034	202091	208	1	3.0	48/56	1/2	1.35			2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
Open	1/3	BF2034	202091	240	1	3.0	48/56	1/2	1.35			2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
Open	1/3	M3007	115863	208	3	1.4	K48	1/2	1.35			1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	-	-
Open	1/3	M3007	115863	240	3	1.6	K48	1/2	1.35			1.30	1.90	RTA1-H	151188	CL00A310T-S	151147	-	-
Open	1/3	M3007	115863	480	3	0.8	K48	1/2	1.35			0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
Open	1/2	BF2054	102627	120	1	8.8	56Z	5/8	1.15			8.00	12.00	RTA1-N	151193	CL00A310T-J	151146	42AF35AF	119626
Open	1/2	BF2054	102627	208	1	5.1	56Z	5/8	1.15			4.00	6.30	RTA1-L	151191	CL00A310T-L	151150	42AF35AG	119627
Open	1/2	BF2054	102627	240	1	4.4	56Z	5/8	1.15			4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	42AF35AG	119627
Open	1/2	H880	159183	208	3	2.5	LA56	5/8	1.25			1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	42AF35AG	119627
Open	1/2	H880	159183	240	3	3.0	LA56	5/8	1.25			2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
Open	1/2	H880	159183	480	3	1.5	LA56	5/8	1.25			1.30	1.90	RTA1-H	151188	CL00A310T-J	151146	42AF35AF	119626
Open	1/2	H991	202089	575	3	0.9	H56	5/8	1.25			0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
Open	3/4	AOS-C426V1	93548	120	1	11.0	B56	5/8	1.25			10.00	16.00	RTA1-P	151194	CL01A310T-J	151151	42AF35AF	119626
Open	3/4	AOS-C426V1	93548	208	1	5.5	B56	5/8	1.25			4.00	6.30	RTA1-L	151191	CL00A310T-L	151150	42AF35AG	119627
Open	3/4	AOS-C426V1	93548	240	1	5.4	B56	5/8	1.25			4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	42AF35AG	119627
Open	3/4	312P696	36951	208	3	2.9	D56	5/8	1.25			2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
Open	3/4	312P696	36951	240	3	2.6	D56	5/8	1.25			2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
Open	3/4	312P696	36951	480	3	1.3	D56	5/8	1.25			1.00	1.50	RTA1-G	151187	CL00A310T-J	151146	42AF35AF	119626
Open	3/4	H992	202090	575	3	1.0	H56	5/8	1.25			0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
Open	1	C523	13685	120	1	13.0	H56	5/8	1.25			10.00	16.00	RTA1-P	151194	CL01A310T-J	151151	42AF35AF	119626
Open	1	C523	13685	208	1	7.5	H56	5/8	1.25			5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	42AF35AG	119627
Open	1	C523	13685	240	1	6.5	H56	5/8	1.25			5.50	8.50	RTA1-M	151192	CL00A310T-S	151147	42AF35AG	119627
Open	1	AOS-H882L	36580	208	3	3.4	56H	5/8	1.15		79.0%	2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
Open	1	AOS-H882L	36580	240	3	3.7	56H	5/8	1.15		79.0%	2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
Open	1	AOS-H882L	36580	480	3	2.0	56H	5/8	1.15		79.0%	1.80	2.70	RTA1-J	151189	CL00A310T-J	151146	42AF35AF	119626
Open	1	H959	158175	575	3	1.4	JA56	7/8	1.15		82.5%	1.00	1.50	RTA1-G	151187	CL00A310T-J	151146	-	-
Open	1.5	C621	194202	120	1	15.0	56	5/8	1.2	86.4	77.2%	10.00	16.00	RTA1-P	151194	CL02A310T-J	151156	42AF35AF	119626
Open	1.5	C621	194202	208	1	7.8	56	5/8	1.2	86.4	77.2%	5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	42AF35AG	119627
Open	1.5	C621	194202	240	1	7.5	56	5/8	1.2	86.4	77.2%	5.50	8.50	RTA1-M	151192	CL00A310T-S	151147	42AF35AG	119627
Open	1.5	AOS-H884L	115859	208	3	5.6	UA56	5/8	1.15	66.4	78.6%	4.00	6.30	RTA1-L	151191	CL00A310T-L	151150	42AF35AG	119627
Open	1.5	AOS-H884L	115859	240	3	5.0	UA56	5/8	1.15	66.4	78.6%	4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	42AF35AG	119627
Open	1.5	AOS-H884L	115859	480	3	2.8	UA56	5/8	1.15	66.4	78.6%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	42AF35AF	119626
Open	1.5	AOS-H960	158162	575	3	2.0	LA56H	7/8	1.15	85.3	84.0%	1.80	2.70	RTA1-J	151189	CL00A310T-J	151146	-	-
Open	2	AOS-RB1204AV1	202581	120	1	24.6	56H	5/8	1			21.00	26.00	RTA1-U	151197	CL04A310M-J	151165	42AF35AF	119626
Open	2	AOS-RB1204AV1	202581	208	1	12.3	56H	5/8	1.15			10.00	16.00	RTA1-P	151194	CL01A310T-L	151155	42AF35AG	119627
Open	2	AOS-RB1204AV1	202581	240	1	12.3	56H	5/8	1.15			10.00	16.00	RTA1-P	151194	CL01A310T-S	151152	42AF35AG	119627
Open	2	AOS-H886	159327	208	3	7.0	56HZ	7/8	1.15	67	79.0%	5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	42AF35AG	119627
Open	2	AOS-H886	159327	240	3	6.6	56HZ	7/8	1.15	67	79.0%	5.50	8.50	RTA1-M	151192	CL00A310T-S	151147	42AF35AG	119627
Open	2	AOS-H886	159327	480	3	3.5	56HZ	7/8	1.15	67	79.0%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	42AF35AF	119626
Open	2	AOS-H965V1	158176	575	3	2.6	L56	7/8	1.15	86	84.0%	1.80	2.70	RTA1-J	151189	CL00A310T-J	151146	-	-
Open	3	AOS-B735	111560	208	1	13.7	L56	5/8	1.15	94.5	80.3%	10.00	16.00	RTA1-P	151194	CL02A310T-L	151159	-	-
Open	3	AOS-B735	111560	240	1	12.4	L56	5/8	1.15	94.5	80.3%	10.00	16.00	RTA1-P	151194	CL01A310T-S	151152	-	-
Open	3	AOS-H845	159185	208	3	9.0	P56Z	7/8	1.15			8.00	12.00	RTA1-N	151193	CL00A310T-L	151150	42AF35AG	119627



Motors that don't list a contactor require a starter. If a contactor is listed, starter is optional.

MOTOR	Mfr		Reznor®	Volt	ph	FLA	Frame	Shaft	Service Factor	Power Factor	Efficiency	OVERLOAD				STARTER		CONTACTOR	
Type	HP	Model No.	P/N									min	max	GE #	P/N	GE #	P/N	GE #	P/N
Open	3	AOS-H845	159185	240	3	8.6	P56Z	7/8	1.15			8.00	12.00	RTA1-N	151193	CL00A310T-S	151147	42AF35AG	119627
Open	3	AOS-H845	159185	480	3	4.3	P56Z	7/8	1.15			4.00	6.30	RTA1-L	151191	CL00A310T-J	151146	42AF35AF	119626
Open	3	AOS-H954	120019	575	3	3.6	N56Z	7/8	1.15	80.3	83.8%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	-	-
Open	5	AOS-196033J	113371	208	3	13.4	Y56HZ	7/8	1.15	87.2	85.0%	10.00	16.00	RTA1-P	151194	CL01A310T-L	151155	-	-
Open	5	AOS-196033J	113371	240	3	13.2	Y56HZ	7/8	1.15	87.2	85.0%	10.00	16.00	RTA1-P	151194	CL01A310T-S	151152	-	-
Open	5	AOS-196033J	113371	480	3	6.6	Y56HZ	7/8	1.15	87.2	85.0%	5.50	8.50	RTA1-M	151192	CL00A310T-J	151146	-	-
Open	5	AOS-H956	120020	575	3	5.4	Y56HZ	7/8	1.15	85.9	85.3%	4.00	6.30	RTA1-L	151191	CL00A310T-J	151146	-	-
TEFC	1/4	USMTR T14CA2J9	16074*	120	1	6.5	H56	5/8	1			5.50	8.50	RTA1-M	151190	CL00A310T-J	151146	42AF35AF	119626
TEFC	1/4	USMTR T14CA2J9	16074*	208	1	2.8	H56	5/8	1.35			2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
TEFC	1/4	USMTR T14CA2J9	16074*	240	1	3.2	H56	5/8	1.35			2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
TEFC	1/4	USMTR T14S2A	271443**	208	3	1.1	56	5/8	1	61.9	72.1%	1.00	1.90	RTA1-G	151187	CL00A310T-L	151150	42AF35AG	119627
TEFC	1/4	USMTR T14S2A	271443**	240	3	1.1	56	5/8	1	61.9	72.1%	1.00	1.50	RTA1-G	151187	CL00A310T-S	151147	42AF35AG	119627
TEFC	1/4	USMTR T14S2A	271443**	480	3	0.5	56	5/8	1	61.9	72.1%	0.40	0.65	RTA1-D	151184	CL00A310T-J	151146	42AF35AF	119626
TEFC	1/3	AOS-906L	115861	120	1	4.6	N48	1/2	1	68.5	72.1%	4.00	6.30	RTA1-L	151191	CL00A310T-J	151146	42AF35AF	119626
TEFC	1/3	AOS-C151	159501	208	1	2.3	N48	1/2	1	67.2	69.5%	1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	42AF35AG	119627
TEFC	1/3	AOS-C151	159501	240	1	2.4	N48	1/2	1	67.2	69.5%	1.80	2.70	RTA1-J	151189	CL00A310T-S	151147	42AF35AG	119627
TEFC	1/3	AOS-H261	105567	208	3	1.2	L48	1/2	1.15		79.5%	1.00	1.50	RTA1-G	151187	CL00A310T-L	151150	-	-
TEFC	1/3	AOS-H261	105567	240	3	1.2	L48	1/2	1.15		79.5%	1.00	1.50	RTA1-G	151187	CL00A310T-S	151147	-	-
TEFC	1/3	AOS-H261	105567	480	3	0.6	L48	1/2	1.15		79.5%	0.40	0.65	RTA1-D	151184	CL00A310T-J	151146	-	-
TEFC	1/2	AOS-C613	159184	120	1	7.2	J56	5/8	1.15			5.50	8.50	RTA1-M	151192	CL00A310T-J	151146	42AF35AF	119626
TEFC	1/2	AOS-C613	159184	208	1	3.5	J56	5/8	1.15			2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
TEFC	1/2	AOS-C613	159184	240	1	3.6	J56	5/8	1.15			2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
TEFC	1/2	AOS-H274	16077	208	3	2.3	H56	5/8	1	59.5	74.8%	1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	42AF35AG	119627
TEFC	1/2	AOS-H274	16077	240	3	2.0	H56	5/8	1	59.5	74.8%	1.80	2.70	RTA1-J	151189	CL00A310T-S	151147	42AF35AG	119627
TEFC	1/2	AOS-H274	16077	480	3	1.0	H56	5/8	1	59.5	74.8%	0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	42AF35AF	119626
TEFC	1/2	AOS-H276	105568	575	3	0.7	J56	5/8	1.15	76.4	77.0%	0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
TEFC	3/4	AOS-F353	115860	120	1	11.0	F56	5/8	1	66	65.7%	10.00	16.00	RTA1-P	151194	CL01A310T-J	151151	42AF35AF	119626
TEFC	3/4	AOS-F353	115860	208	1	5.4	F56	5/8	1	66	65.7%	4.00	6.30	RTA1-L	151191	CL00A310T-L	151150	42AF35AG	119627
TEFC	3/4	AOS-F353	115860	240	1	5.5	F56	5/8	1	66	65.7%	4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	42AF35AG	119627
TEFC	3/4	AOS-H580	20371	208	3	2.0	KA56	5/8	1	73.5	81.1%	1.80	2.70	RTA1-J	151189	CL00A310T-L	151150	42AF35AG	119627
TEFC	3/4	AOS-H580	20371	240	3	2.2	KA56	5/8	1	73.5	81.1%	1.80	2.70	RTA1-J	151189	CL00A310T-S	151147	42AF35AG	119627
TEFC	3/4	AOS-H580	20371	480	3	1.1	KA56	5/8	1	73.5	81.1%	1.00	1.50	RTA1-G	151187	CL00A310T-J	151146	42AF35AF	119626
TEFC	3/4	AOS-H461	105569	575	3	0.8	L56	5/8	1.15	78.3	82.0%	0.65	1.10	RTA1-F	151186	CL00A310T-J	151146	-	-
TEFC	1	AOS-159105	174993	120	1	12.0	L56	5/8	1.15	74.3	70.6%	10.00	16.00	RTA1-P	151194	CL01A310T-J	151151	42AF35AF	119626
TEFC	1	AOS-159105	174993	208	1	6.2	L56	5/8	1.15	74.3	70.6%	5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	42AF35AG	119627
TEFC	1	AOS-159105	174993	240	1	6.0	L56	5/8	1.15	74.3	70.6%	5.50	8.50	RTA1-M	151192	CL00A310T-S	151147	42AF35AG	119627
TEFC	1	WEG-00118E	271444**	208	3	3.3	D56	5/8	1	74.4	80.2%	2.50	4.10	RTA1-K	151190	CL00A310T-L	151150	42AF35AG	119627
TEFC	1	WEG-00118E	271444**	240	3	3.1	D56	5/8	1	74.4	80.2%	2.50	4.10	RTA1-K	151190	CL00A310T-S	151147	42AF35AG	119627
TEFC	1	WEG-00118E	271444**	480	3	1.6	D56	5/8	1	74.4	80.2%	1.30	1.90	RTA1-H	151188	CL00A310T-J	151146	42AF35AF	119626
TEFC	1	AOS-H525	105570	575	3	1.4	56	5/8	1.15	71.6	80.4%	1.00	1.50	RTA1-G	151187	CL00A310T-J	151146	-	-
TEFC	1.5	AOS-C686	94347	120	1	16.4	TK56H	5/8				14.50	18.00	RTA1-S	151196	CL02A310T-J	151156	42AF35AF	119626
TEFC	1.5	AOS-C686	94347	208	1	9.5	TK56H	5/8				8.00	12.00	RTA1-N	151193	CL00A310T-L	151150	42AF35AG	119627
TEFC	1.5	AOS-C686	94347	240	1	8.2	TK56H	5/8				8.00	12.00	RTA1-N	151193	CL00A310T-S	151147	42AF35AG	119627
TEFC	1.5	WEG-00158E	271445**	208	3	4.3	D56	5/8	1	80.9	82.4%	4.00	6.30	RTA1-L	151191	CL00A310T-L	151150	42AF35AG	119627
TEFC	1.5	WEG-00158E	271445**	240	3	4.4	D56	5/8	1	80.9	82.4%	4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	42AF35AG	119627
TEFC	1.5	WEG-00158E	271445**	480	3	2.2	D56	5/8	1	80.9	82.4%	1.80	2.70	RTA1-J	151189	CL00A310T-J	151146	42AF35AF	119626
TEFC	1.5	AOS-T59027	105665	575	3	1.7	145T	7/8	1.15	85.7	84.0%	1.30	1.90	RTA1-H	151188	CL00A310T-J	151146	-	-
TEFC	2	L3516M	205881	230	1	8.3	56HZ	7/8	1.15	99	78.0%	5.50	8.50	RTA1-M	151192	CL00A310T-I	151147	42AF35AG	119627
TEFC	2	WEST-NP0024	158165	208	3	7.6	145T	7/8	1.15	77.5	84.0%	5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	-	-
TEFC	2	WEST-NP0024	158165	240	3	5.6	145T	7/8	1.15	77.5	84.0%	4.00	6.30	RTA1-L	151191	CL00A310T-S	151147	-	-
TEFC	2	WEST-NP0024	158165	480	3	2.8	145T	7/8	1.15	77.5	84.0%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	-	-
TEFC	2	AOS-T59028	158166	575	3	2.2	145T	7/8	1.15	77.5	84.0%	1.80	2.70	RTA1-J	151189	CL00A310T-J	151146	-	-
TEFC	3	M3559T	159330	208	3	7.7	145T	7/8	1.15	85.5	85.5%	5.50	8.50	RTA1-M	151192	CL00A310T-L	151150	-	-
TEFC	3	M3559T	159330	240	3	7.0	145T	7/8	1.15	85.5	85.5%	5.50	8.50	RTA1-M	151192	CL00A310T-S	151147	-	-
TEFC	3	M3559T	159330	480	3	3.5	145T	7/8	1.15	85.5	85.5%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	-	-
TEFC	3	B-EM3559T-5	111571	575	3	2.8	145T	7/8	1.15	85.5	85.5%	2.50	4.10	RTA1-K	151190	CL00A310T-J	151146	-	-

### TEFC Motor Replacement Notes:

#### \*Shaft Size Change

\* TEFC 1/4 HP, 120/1 phase - Replacement motor shaft size is 5/8" (original AOS motor was 1/2").

#### \*\*Starter Required

\*\*TEFC 1/4 HP, 208/230/480/3 phase - Replacement Motor P/N 271443 requires a starter; consult the factory providing wiring diagram or serial number to determine appropriate starter and overload.

\*\*TEFC 1 HP, 208/230/480/3 phase - Replacement Motor P/N 271444 requires a starter; consult the factory providing wiring diagram or serial number to determine appropriate starter and overload.

\*\*TEFC 1.5 HP, 208/230/480/3 phase - Replacement Motor P/N 271445 requires a starter; consult the factory providing wiring diagram or serial number to determine appropriate starter and overload.

## Drives - CODE 35 - Motor Pulley, CODE 36 - Blower Pulley, CODE 37 - Belt

UDBP and UDBS	OPEN MOTOR HP	Option AL	Voltage Option	Drive, Option AM	Motor Pulley			Blower Pulley			Average Belt Links and Type*
					P/N	Model	Bore	P/N	Model	Bore	
150 and 175	1/4, 1/3	2, 3	AK1, AK2, AK3, AK5, AK6, AK7	1, 2	4074	1VL34	1/2	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	13491	1VL40	1/2	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	13491	1VL40	1/2	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	13491	1VL40	1/2	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	13491	1VL40	1/2	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1/2, 3/4, 1, 1-1/2	4, 5, 6, 7	AK1, AK2, AK3, AK5, AK6, AK7	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1/2, 3/4	4, 5	AK8	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1, 1-1/2	6, 7	AK8	1, 2	110125	1VP34	7/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	106748	1VL40	7/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	106748	1VL40	7/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	106748	1VL40	7/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	2	8	AK1, AK2, AK3	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	2	8	AK5, AK6, AK7, AK8	1, 2	110125	1VP34	7/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	106748	1VL40	7/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	106748	1VL40	7/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	106748	1VL40	7/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, 400	3	9	AK2, AK3	9, 10, 11, 12	7962	1VL40	5/8	202652	AK124	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17, 18, 19	7962	1VL40	5/8	202653	AK94	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, 400	3, 5	9, 10	AK5, AK6, AK7, AK8	9, 10, 11, 12	106748	1VL40	7/8	101414	BK130	1	"B-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	202654	BK105	1	"B-section" 3.8 ft
UDBP and UDBS	TEFC MOTOR HP	Option AL	Voltage Option	Drive, Option AM	Motor Pulley			Blower Pulley			Average Belt Links and Type*
					P/N	Model	Bore	P/N	Model	Bore	
150 and 175	1/4	19	AK1	1, 2	4074	1VL34	1/2	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	13491	1VL40	1/2	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	13491	1VL40	1/2	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	13491	1VL40	1/2	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	13491	1VL40	1/2	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1/4	19	AK2, AK3, AK5, AK6, AK7	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150 and 175	1/3	20	AK1, AK2, AK3, AK5, AK6, AK7	1, 2	4074	1VL34	1/2	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	13491	1VL40	1/2	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	13491	1VL40	1/2	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	13491	1VL40	1/2	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	13491	1VL40	1/2	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1/2, 3/4, 1	21, 22, 23	AK1, AK2, AK3, AK5, AK6, AK7, AK8	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1-1/2	24	AK1, AK2, AK3, AK5, AK6, AK7	1, 2	13580	1VL34	5/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	7962	1VL40	5/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	7962	1VL40	5/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	7962	1VL40	5/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	7962	1VL40	5/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	1-1/2	24	AK8	1, 2	110125	1VP34	7/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	106748	1VL40	7/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	106748	1VL40	7/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	106748	1VL40	7/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, and 400	2	25	AK5, AK6, AK7, AK8	1, 2	110125	1VP34	7/8	111609	AK 99	1	"A-section" 3.8 ft
				3, 4	106748	1VL40	7/8	111609	AK 99	1	"A-section" 3.8 ft
				5, 6, 7	106748	1VL40	7/8	19111	AK 84	1	"A-section" 3.8 ft
				8, 9, 10, 11, 12	106748	1VL40	7/8	18797	AK 64	1	"A-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	135200	AK 51	1	"A-section" 3.8 ft
150, 175, 200, 225, 250, 300, 350, 400	3	26	AK5, AK6, AK7, AK8	9, 10, 11, 12	106748	1VL40	7/8	101414	BK130	1	"B-section" 3.8 ft
				13, 14, 15, 16, 17	106748	1VL40	7/8	202654	BK105	1	"B-section" 3.8 ft

\* Assume 17 belt links per foot. CODE 37, "A" Belt link, P/N 201809, Fenner #0408030; "B" Belt link, P/N 202655, Fenner #0408050.

47 Hanger Bar on top of Models UDBP and UDBS

45 Burner Shield, Burner Assy, and Gas Valve

44 Burner Assy

51 Gas Valve

52 Control Assy

40 Venter & Flue Wrapper Assy

48 Heat Exchanger Assembly

49 Flue Collar Support

50 (See below.)

41 Flue Collar Support

42 Flue Collar Support

55 Terminal Strip

57 24V Terminal Strip

58 Fan

59 Fan

12 (page 5)

CODE 64	REZNOR®	CODE 66
CODE 65	V3T CORE2	V3 SC

Sizes 30-125 only

CODE 57B

57B - Flue Collar Support, Sizes 200-400, P/N 254952

CODES 60A, 60B, and 61; CODE 62 - clips behind (not shown)

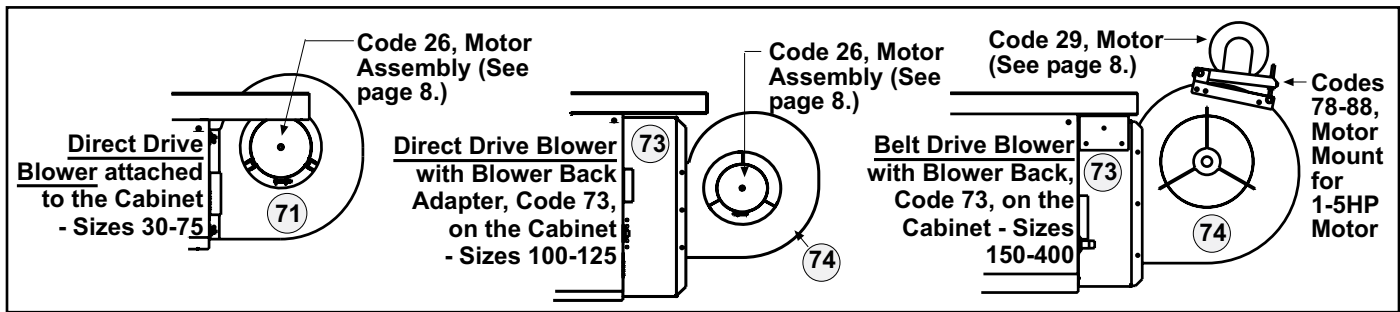
(Quantities other than one are listed in parenthesis.)

\* Parts changed effective 3/18/03. Not interchangeable with previously manufactured parts with same P/N.

\*\* Parts changed effective 4/12. Not interchangeable with previously manufactured parts with same P/N.

## Cabinet Parts (cont'd)

### Blower Backs and Blowers - UDBP and UDBS



Code	Description	30	45	60	75	100	125	150	175	200	225	250	300	350	400
70	Restrictor Assembly	201408	-	-	-	-	-	-	-	-	-	-	-	-	-
70A	Restrictor	194512	-	-	-	-	-	-	-	-	-	-	-	-	-
70B	Restrictor Angle	(3) 100892	-	-	-	-	-	-	-	-	-	-	-	-	-
70C	Sheetmetal Screw	(3) 195638	-	-	-	-	-	-	-	-	-	-	-	-	-
71	Blower Assembly	201401				See Code 74.									
71A	Blower 9 X 6	82111													
71B	Blower Mounting Angle	(2) 201740													
71C	#10 x 1/2" Long Tekes	(6) 37661													
72	Blower Back Corner Post	-	-	-	-	196239		201797		201798		201799			
73	Blower Adapter Back Assy	-	-	-	-	201403		202931	201800	201801		201802			
73A	Adapter Back Bottom	-	-	-	-	202050	202050	201718		201719		201720			
73B	Adapter Back Top	-	-	-	-	196032	196032	201715		201716		201717			
73C	Adapter Back Left Side	-	-	-	-	197253	197253	201724		201725		201726			
73D	Adapter Back Right Side	-	-	-	-	197254	197254	201721		201722		201723			
73E	Screw	-	-	-	-	(20) 195638		(34) 195638		(26) 195638		(34) 195638			
73F	Air Baffle Horizontal	-	-	-	-	(2) 196344		202934	(2)202932		-	-	(2) 202933		
73G	Air Baffle Vertical	-	-	-	-	196345	196345	-	-	-	-	-	-	-	-
73H	Hanger Support Bracket Left	-	-	-	-	-	-	202759							
73I	Hanger Support Bracket Right	-	-	-	-	-	-	202760							
73J	Bolt 1/4" X 5/8" (Hanger Support Bracket to Adapter Back)	-	-	-	-	-	-	(6) 47252							
73K	Nut 1/4" - 20	-	-	-	-	-	-	(6) 7328							
74	Blower	See CODE 71.				201770, 10x10		1360, 12x12		100658, 15x11		100659, 15x15			
75A	Key, 1/4" square x 1-1/4" long	-	-	-	-	-	-	16099							
75B	Blower Shaft	-	-	-	-	-	-	11303, 1 x 22				100747, 1 x 23			
75C	Blower Bearings	-	-	-	-	-	-	10437, SRC-16-1-1"							

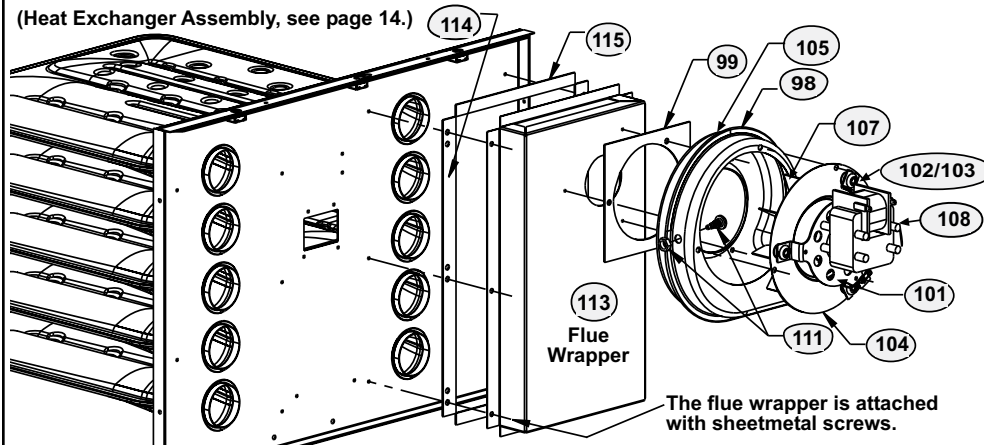
### Blower Motor Mounting Components

Motor Mounting 1/4 - 3/4 HP Motor		150-250
<b>76</b>	Motor Adjustment Bracket Assembly	<b>193996</b>
<b>76A</b>	Motor Adjustment Bracket	<b>12575</b>
<b>76B</b>	5/16-18 Spotweld Nut	(2) <b>16233</b>
<b>76C</b>	Hex Head Motor Adjustment, Bolt, 5/16-18 x 4" lg	(2) <b>14668</b>
<b>76D</b>	5/16-18 Hex Nut	(2) <b>1035</b>
<b>76E</b>	1/4-20 x 3/4" long Hex Head, Cap Screw	(2) <b>16246</b>
<b>76F</b>	1/4-20 Hex Nut (Kep)	(2) <b>10650</b>
<b>76G</b>	1/4" Flat Washer	(4) <b>1320</b>
<b>77</b>	Hardware Bag for CODE 76	<b>64940</b>

Motor Mounting 1-5 HP Motor		175-200	225-250	300-400
<b>78</b>	Motor Mounting Plate for 1HP - 5HP	<b>202839</b>	<b>202840</b>	<b>202841</b>
<b>79</b>	Motor Mounting Plate Left Support	<b>12576</b>		
<b>80</b>	Motor Mounting Plate Right Support	<b>12577</b>		
<b>81</b>	Rod Bolt 5/16-18	(2) <b>12489</b>		
<b>82</b>	Hex Nut 5/16-18	(2) <b>1035</b>		
<b>83</b>	Hex Nut 5/16-18 (Keps)	(6) <b>6554</b>		
<b>84</b>	Flat Washer 5/16"	(8) <b>1087</b>		
<b>85</b>	5/16-18x3/4" lg Hex Head Cap Screw	(6) <b>16247</b>		
<b>86</b>	5/16-18x1-1/2" lg Hex Head Cap Screw	(2) <b>16248</b>		
<b>87</b>	5/16"-18 Threaded Insert #ATS2-518	(4) <b>124260</b>		
<b>88</b>	#10-16 x 1/2" long Tekes	(4) <b>37661</b>		

## Venter and Flue Wrapper Components

(Heat Exchanger Assembly, see page 14.)

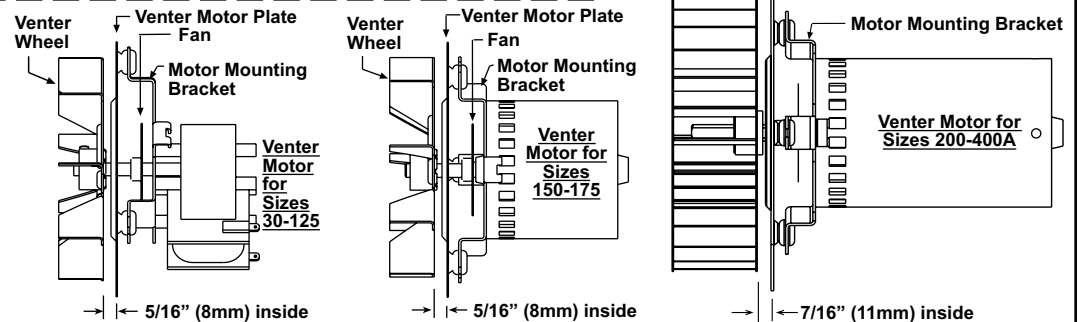


### CODE 109 - Venter Motor Capacitor



See P/N's below and location on page 4.

### CODE 100 - Venter Motor and Wheel Assemblies showing Components and Spacing

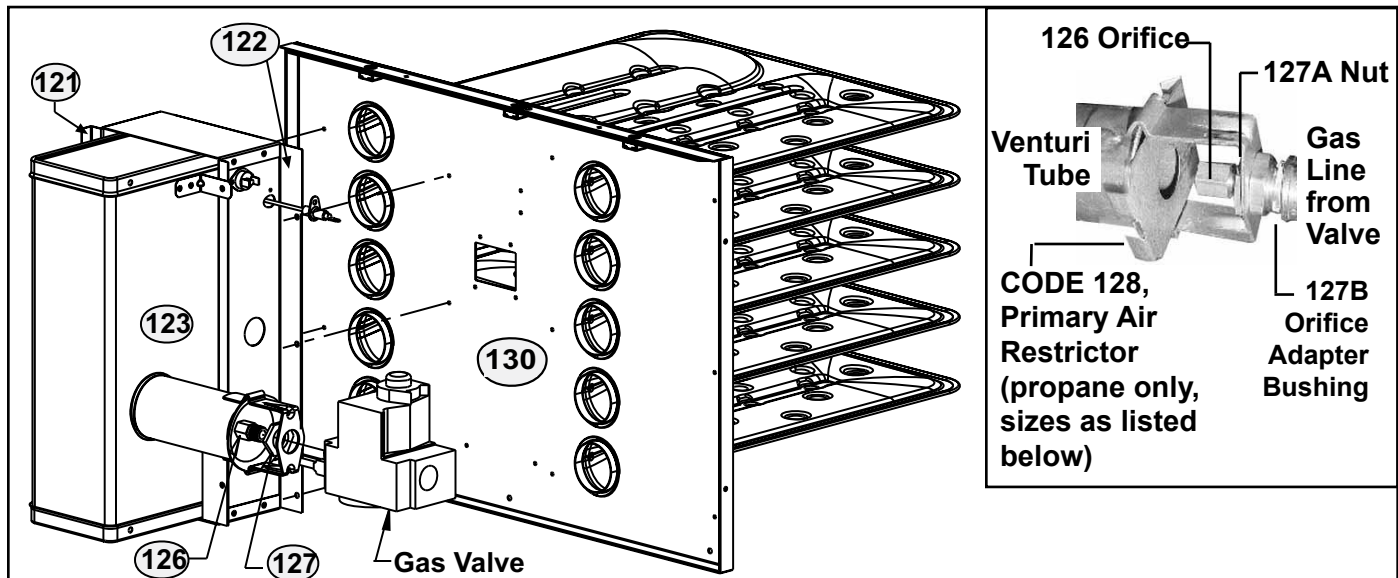


Code	Description	Model	30	45	60	75	100	125	150	175	200	225	250	300	350	400		
98	Venter Housing	All	196248									195634 prior to 7/23/09; 257029 after 7/23/09						
99	Venter Housing Gasket		196012									196013 prior to 7/23/09; 254935 after 7/23/09						
100	Venter Motor and Wheel Assy <b>NOTE:</b> 460V & 575V supply use 115V vnter motor.	115V All (not w/AV6)	220779				220780		220782		220784			220786				
		208/230V/1ph UDAP/UDAS	220781						220783		220785			220787				
		208/230V/3ph UDBP/UDBS	N/A						220783		220785			220787				
<b>NOTE: CODE 100 includes Codes 101, 102, 103A, 103B, 104, 106A, 106B, 107, 108A or B, and 110</b>																		
101	Venter Motor Bracket	All	195072				--		--		195072							
102	Venter Motor Isolator		(3) 194534															
103A	Venter Motor Isolator Bushing		(3) 194803															
103B	Venter Motor Isolator Bushing Screw		(3) 113275															
104	Venter Motor Plate		194806								194910							
105	Venter Motor Plate Gasket		--				--		--		--		201472					
106A	Venter Motor Clip		194805 (208/230V only)				--		--		(3) 194805							
106B	Venter Motor Clip Screw		92851 (208/230V only)				--		--		(3) 92851							
107	Venter Wheel	All Models except UDAP-CV	195036								195666							
		UDAP-CV w/AV6 (common vent)	211819								--		--		--		--	
108A	Venter Motor only <b>NOTE:</b> 460V and 575V supply use 115V venter motor.	115V All	175273				262444 *		196036		196037			196236				
		115V w/AV6 UDAP	217032				262444*		--		--		--		--			
		208/230V/1ph UDAP/UDAS	196827				196828				196829			196830				
		208/230V/3ph UDBP/UDBS	N/A				196828				196829			196830				
108B	Vntr Mtr w/Opt D10&14 DDC Cntrl	115V UDAP/UDAS	N/A				207992   196036		208194		196037		196236		207892			
		208/230V/1ph UDAP/UDAS	N/A				196828		196829		196830		196830					
109A	Vntr Motor Capacitor (in control compartment; see page 4) <b>NOTE:</b> 460V and 575V supply use 115V venter motor.	115V All	--	--	--	--	--	--	195641, 4MFD, 400 VAC, #MB40040EB		195643, 7.5MFD, 400 VAC, #MB40075EB			195642, 5MFD, 400VAC, #MB40050EB				
		208-230V/1ph UDAP/UDAS	--	--	--	--	--	--	195641, 4MFD, 400 VAC, #MB40040EB		195642, 5MFD, 400VAC, #MB40050EB			195641, 4MFD, 400 VAC, #MB40040EB				
		208-230V/3ph UDBP/UDBS	N/A				195642   195641		195643		195642		195643					
109B	Vntr Mtr Capacitor w/ Opt D10&14 DDC	115V UDAP/UDAS	N/A				195642   195641		195643		195642		195641					
110	Venter Motor Cooling Fan	All	195766									196035						
111	Static Pressure Tap	All	116043															
112	Silicone Rubber Tubing	All	148986, 6" long							148251, 12"		205837, 16"		130673, 20"		157904, 22"		
113	Flue Wrapper Assy - Sizes 200-400 manufactured prior to 7/23/09	UDAP w/ std power vent & UDBP	196000	196001	196002	196003	196004	196005	201473	204461	201475	201476	201477	201478	201481	202721		
		UDAP-CV with Option AV6	196802	196803	196804	196805	196806	--	--	--	--	--	--	--	--	--		
		UDAS	196807	196808	196809	196810	196811	196812	201473	204461	201475	201476	201477	201478	201481	202721		
	Flue Wrapper Assy - Sizes 200-400 manufactured after 7/23/09	UDBS	202715	202716	202717	202718	202719	196812	201473	204461	201475	201476	201477	201478	201481	202721		
		UDAP w/ std power vent & UDBP	Same as P/N's listed above for Sizes 30-175.									254944	254945	254946	254947	254948	254949	
		UDAP-CV with Option AV6	Same as P/N's listed above for Sizes 30-175.									--	--	--	--	--	--	
114	Side Flue Wrapper Gasket	All - qty (2)	170029			170030			170031		170033   170034		170035		170042   170043   170044   170036   170037			
115	Top/Btm Flue Wrapper Gasket	All Qty (2)	170038							170039								
<b>* When replacing a McMillan motor. Reznor® P/N 256091, order replacement kit P/N 262444 plus Item Codes 102, 103A, 103B, and (4) 106B.</b>																		

\* When replacing a McMillan motor, Reznor® P/N 256091, order replacement kit P/N 262444 plus Item Codes 102, 103A, 103B, and (4) 106B.



## Heat Exchanger and Burner Assemblies



**NOTE:** Replacement heat exchanger and burner for Sizes 30-125 is illustrated. Replacement heat exchanger for Sizes 150-400 includes a tube support and four channels connecting the header to the support. All replacement heat exchangers include a gasket kit with instructions for attaching gaskets.

### Burner Assembly (Quantities other than one are listed in parenthesis.)

Code	Description	Model	30	45	60	75	100	125	150	175	200	225	250	300	350	400	
121	Burner Shield Front Side	UDAP/UDAS	222100	222101	222102	222103	222105	222106	222107	222108	222109	222110	222111	222112			
		222104				222112								222113			
122	Burner Shield Rear Side	UDAP/UDAS	222127	222128	222129	222130	222131	222132	222133	222134	222136	222137	222138	222139			
		UDBP/UDBS	222147	222148	222149	222150	222151	222152						222139	222140		
123	Burner Assembly	UDAP/UDAS	195231	195232	195233	195234	195235	195236	195237	195238	195239	195240	195241	195242	195243		
		UDBP/UDBS	195231	195232	195233	202642	195235	195236	195237	195238	195239	195240	195241	195242	195243		
123A	Burner End Gaskets	All	(2) 195667						(2) 195668								
124	Burner Baffle	UDAP/UDAS	--	--	--	--	(2) 196750		(2) 197238						(2) 197239	--	
						(2) 196751		--									
		UDBP/UDBS	--	--	(2) 196749	(2) 202682	(2) 196750		(2) 197238						(2) 197239	--	
						(2) 202683	(2)	--							(2) 197239	--	
						(2) 202684	196751	--	(2) 197238						(2) 197239	--	
															(2) 197239	--	
125	Burner Support	All	(3)196597 196752	(4) 196597			(6) 196597		(4) 196598			(6) 196598					
126	Burner Orifice	Natural Gas	196853 #37	196838 #30	196839 3.7MM	196855 #19	120158 #10	196840 #4	131581 5.9MM	196891 E	196892 6.8MM	221121 6.95MM	208255 L	221122 8.0MM	221123 8.7MM	196897 9.6MM	
		Propane	196844 1.6MM	196845 #48	196846 2.3MM	196852 #39	196854 3.0MM	196847 3.2MM	196898 9/64"	196899 #24	196900 4.1MM	196901 11/64"	196902 #14	196903 #8	196904 #3	196905 5.8MM	
127A	1/2" Pipe Nut		165702														
127B	Orifice Adapter Bushing		165701, 1/2x1/4										194809, 3/4x3/8				
128	Primary Air Restrictor	Propane only	UDAP/UDAS	196687		196688		--	196688	--	--	--	--	--	--	--	
		UDBP/UDBS	203078		202051		196688			--	--	--	--	--	--		
129	Gas Conversion Kits	Natural to Propane	UDAP/UDAS	269835		269836		269837		269838		269839		201732			
		UDBP/UDBS	269840		269841												
		Propane to Natural	All	269851		269852		269853		269854		269855		201738			

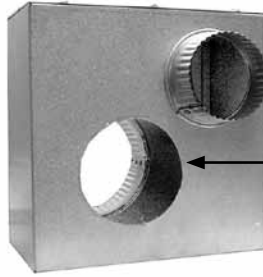
### Heat Exchanger Assembly (Quantities other than one are listed in parenthesis.)

Code	Description			30	45	60	75	100	125	150	175	200	225	250	300	350	400
130	Heat Exchanger Assembly with Gasket Kit	UDAP and UDAS	Aluminized	201628	201629	201630	201631	201632	201633	201634	201635	201636	201637	201638	201639	201640	
			409 SS	201654	201655	201656	201657	201658	201659	201660	201661	201662	201663	201664	201665	201666	
			316 SS	201641	201642	201643	201644	201645	201646	201647	201648	201649	201650	201651	201652	201653	
		UDBP and UDBS	Aluminized	202623	202624	202625	202626	202627	202628	201634	201635	201636	201637	201638	201639	201640	
			409 SS	202629	202630	202631	202632	202633	202634	201660	201661	201662	201663	201664	201665	201666	
			316 SS	202635	202636	202637	202638	202639	202640	201647	201648	201649	201650	201651	201652	201653	
130A	Gasket Kit for Heat Exchanger			201667		201668		201669		201670		201671	221214	201672			

## Venting and Combustion Air Kits - Models UDAS and UDBS

**CODES 135A and 136A - Concentric Adapter Box Assembly**

### View of Heater Connection Side



Collar for attaching the combustion air pipe from the heater

Opening for the vent pipe. The vent pipe extends from the terminal, through the outside air pipe, through the box, and connects to the vent run.

### View of Vent Terminal Connection Side



Collar for attaching the outside portion of the combustion air pipe (the vent pipe runs concentric through the outside portion of the combustion air pipe)

**CODE 135B - Exhaust Terminal (Vertical Kit)**



**CODE 135C - Combustion Air Inlet (Vertical Kit)**



**CODE 136B - Exhaust Grill (Horizontal Kit)**



**CODE 136C - Inlet Guard (Horizontal Kit)**



**CODE 135 - Vertical Vent Terminal/Combustion Air Package (Same as Option CC2) includes:**

Code	Qty	Size	P/N	Description
135	1	30-125	205895	Complete Vertical Vent Kit (Same as Option CC2)
		150-400	205896	
135A	1	30-125	205884	Concentric Adapter Box Assembly
		150-400	205885	
135B	1	30-125	110051	Exhaust (Vent) Terminal
		150-400	110052	
135C	1	30-125	155635	Combustion Air Inlet
		150-400	53330	
136D	2	30-400	207232	Concentric Adapter Box Bracket
135E	1	30-400	53335	Tube of High Temperature (450°F) Silicone Sealant

**CODE 136 - Horizontal Vent Terminal/Combustion Air Package (Same as Option CC6) includes:**

Code	Qty	Size	P/N	Description
136	1	30-125	211762	Complete Horizontal Vent Kit (Same as Option CC6) (as of 11/2005; see below)
		150-400	211763	
136A	1	30-125	211789	Concentric Adapter Box Assembly
		150-400	211790	
136B	1	30-125	211791	Exhaust Grill
		150-400	211792	
136C	1	30-125	151755	Inlet Guard
		150-400	124940	
136D	8	30-400	37661	#10-16 x 1/2" lg Screws to attach guard & grill
136E	2	30-400	207232	Concentric Adapter Box Bracket
136F	1	30-400	53335	Tube of High Temperature (450°F) Silicone Sealant

**Replacement Parts for Horizontal Vent Terminal/Combustion Air Package (Option CC6) prior to 11/2005**

Code	Qty	Size	P/N	Description
136G	1	30-125	205884	Concentric Adapter Box Assembly
		150-400	205885	
136H	1	30-125	155096	Screened Exhaust Assembly
		150-400	53316	
136J	1	30-125	151755	Inlet Guard
		150-400	124940	
136K	2	30-400	207232	Concentric Adapter Box Bracket

**CODE 136H - Screened Exhaust Assembly (Horizontal Kit)**



**CODE 137 - Aesthetic Horizontal Concentric Vent/Combustion Air Kit - Models UDAS and UDBS Sizes 30, 45, 60, and 75 (Same as Option CC14)**

Package P/N 209343 (Same as Option CC14)				
CODE	P/N	Qty	Description	
137A	208994	1	Assembled Vent/Combustion Air Terminal	
137B	209320	1	Concentric Adapter Box	
137C	209337	2	Mounting Brackets	
137D	195638	6	Sheetmetal Screws #8-18 X 3/8	
137E	209338	1	Sealing Gasket	
137F	53335	1	Clear Sealant, #732, 3 oz tube	

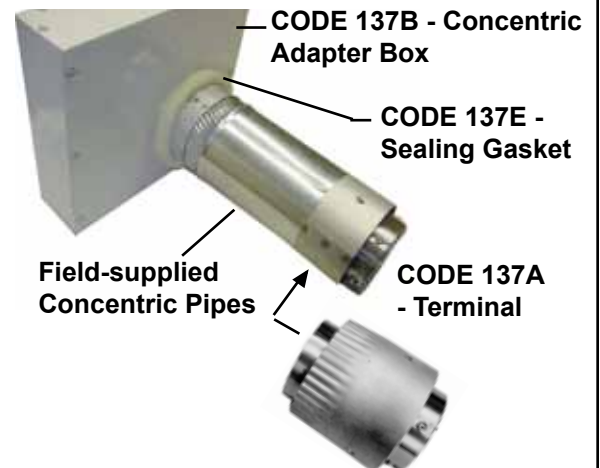
**\*Example of a Finished Vinyl Siding Installation**



**\*Example of a Finished Brick Wall Installation**



**\*Field-supplied parts required.**



## Accessories/Options

### CODE 140 - High Altitude Pressure Switch Kit - Above 6000 ft/1830M Elevation (Same as Option DJ20, DJ21) - Models UDAP, UDAS, UDBP, UDBS as listed

See pressure switch locations in illustrations on pages 4 and 5.



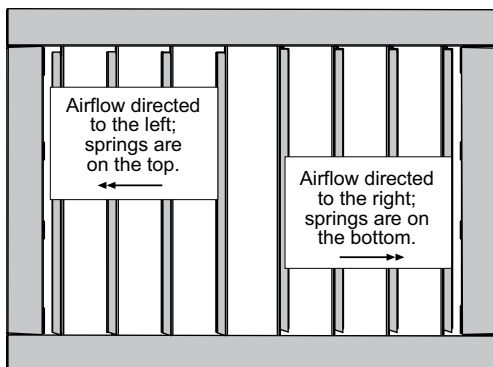
Option DJ20 for <u>Model UDAP</u> installed as a standard Power Vented Fan-Type Unit Heater	Model UDAP	30	45	60	75	100	125	150	175	200	225	250	300	350 & 400			
	Pkg P/N	197117		197118		197117		201162		201163		201162		before 7/23/09	after 7/23/09		
	High Altitude Switch P/N	197031		197032		197031		201160		201161		201160					
	Negative Pressure OFF Setpoint "w.c.	0.35		0.45		0.35		1.0		1.30		1.0					
	Label color	Purple		Pink		Purple		Brown		White		Brown					
Option DJ21 applies only to <u>Model UDAP-CV</u> with Option AV6 for Common Venting	Model UDAP-CV	30	45	60	75	100											
	Pkg P/N	197119	197118	197120		197121											
	High Altitude Switch P/N	197029	197032	196362		196388											
	Negative Pressure OFF Setpoint "w.c.	0.60	0.45	0.55		0.50											
	Label color	Lt Blue	Pink	White		Orange											
Option DJ20 for <u>Model UDAS</u> Separated Combustion Fan- Type Unit Heater	Model UDAS	30	45	60	75	100	125	150	175	200	225	250	300	350 & 400			
	Pkg P/N	197119		197121		197205	197117	201162		201163		201162		before 7/23/09	after 7/23/09		
	High Altitude Switch P/N	197029		196388		197030	197031	201160		201161		201160					
	Differential Pressure OFF Setpoint "w.c.	0.60		0.50		0.40	0.35	1.0		1.30		1.0					
	Label color	Lt. Blue		Orange		Green	Purple	Brown		White		Brown					
Option DJ20 for <u>Model UDBP</u> Power Vented Blower-Type High Static Unit Heater	Model UDBP	30	45	60	75	100	125	150	175	200	225	250	300	350 & 400			
	Pkg P/N	197117		197118		197117		201162		201163		201162		before 7/23/09	after 7/23/09		
	High Altitude Switch P/N	197031		197032		197031		201160		201161		201160					
	Negative Pressure OFF Setpoint "w.c.	0.35		0.45		0.35		1.0		1.30		1.0					
	Label color	Purple		Pink		Purple		Brown		White		Brown					
Option DJ20 for <u>Model UDBS</u> Separated Combustion Blower-Type High Static Unit Heater	Model UDBP	30	45	60	75	100	125	150	175	200	225	250	300	350 & 400			
	Pkg P/N	197117	197118	202103	197118	197117	197205	197117	201162		201163		201162		before 7/23/09	after 7/23/09	
	High Altitude Switch P/N	197031	197032	196362	197032	197031	197030	197031	201160		201161		201160				
	Differential Pressure OFF Setpoint "w.c.	0.35	0.45	0.55	0.45	0.35	0.40	0.35	1.0		1.30		1.0				
	Label color	Purple	Pink	White	Pink	Purple	Green	Purple	Brown		White		Brown				

### CODE 141 - Vent Cap - Models UDAP and UDBP (Same as Option CC1)



Code	Description	30	45	60	75	100	125	150	175	200	225	250	300	350	400
140A	Vent Cap for standard UDAP and UDBP	111848, 4"					111849, 5"					111850, 6"			
140B	Vent Cap for UDAP-CV (Model UDAP with Option AV6 for common venting)	111848, 4"					111849, 5"	--	--	--	--	--	--	--	--

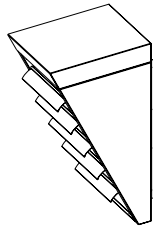
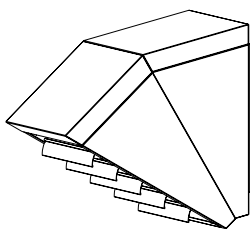
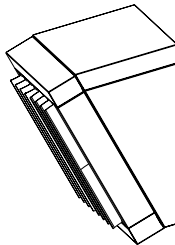
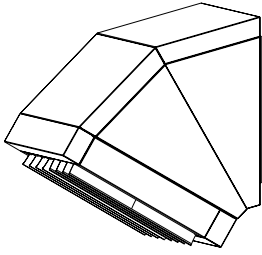
### CODE 142 - Vertical Louvers (Same as Option CD1) - UDAP/UDAS/UDBP/UDBS



Install and adjust vertical louvers to achieve desired airflow pattern.

Size	30, 45	60, 75	100, 125	150, 175, 200	225, 250	300, 350, 400
Option Pkg P/N	197097	197098	197099	201199	201200	201201
<b>Components</b>						
Louver Frame Top and Bottom	(2) 197056			(2) 197189		(2) 197190
Louver Frame Sides	(2) 197057	(2) 197058	(2) 197059	(2) 197186	(2) 197187	(2) 197188
Screws	(20) 195638, #8-18 x 3/8" long, AB point, slotted indented serrated hex washer head					
Louvers	(5) 196232	(5) 196231	(5) 196233	(8) 196572	(8) 196573	(8) 195315
Compression Springs	(5) 195046	(5) 195046	(5) 195046	(8) 195046	(8) 195046	(8) 195046

**CODE 143 - Downturn Nozzles (Same as Options CD2, CD3, CD4, CD5)**

<b>Option CD2 - one nozzle section with a 25-65° range of air deflection</b> 	<b>Option CD3 - two nozzle sections with a 50-90° range of air deflection</b> 	<b>Option CD4 - one nozzle section with a 25-65° range of air deflection and vertical louvers</b> 	<b>Option CD5 - two nozzle sections with a 50-90° range of air deflection and vertical louvers (use on blower Models UDBP and UDBS only)</b> 			
<b>Size</b>	<b>30, 45</b>	<b>60, 75</b>	<b>100, 125</b>	<b>150, 175, 200</b>	<b>225, 250</b>	<b>300, 350, 400</b>
<b>Option CD2 Pkg P/N</b>	<b>197103</b>	<b>197104</b>	<b>197105</b>	<b>201202</b>	<b>201203</b>	<b>201204</b>
Nozzle Section Right Side	(1) <b>196990</b>	(1) <b>196991</b>	(1) <b>196992</b>	(1) <b>197173</b>	(1) <b>197174</b>	(1) <b>197175</b>
Nozzle Section Left Side	(1) <b>196993</b>	(1) <b>196994</b>	(1) <b>196995</b>	(1) <b>197176</b>	(1) <b>197177</b>	(1) <b>197178</b>
Nozzle Section Top	(1) <b>196987</b>	(1) <b>196988</b>	(1) <b>196989</b>	(1) <b>197170</b>	(1) <b>197171</b>	(1) <b>197172</b>
Nozzle Bracket	--	--	--	(2) <b>201708</b>		(2) <b>201709</b>
Nozzle Section Bottom		(1) <b>196996</b>		(1) <b>196997</b>		(1) <b>197179</b>
Screws, #8-18 x 3/8" long AB point, slotted indented serrated hex washer head		(14) <b>195638</b>			(16) <b>195638</b>	
<b>Option CD4 Pkg P/N</b>	<b>197114</b>	<b>197115</b>	<b>197116</b>	<b>201208</b>	<b>201209</b>	<b>201210</b>
<b>Same components as Option CD2 above PLUS</b>						
Vertical Louver	(5) <b>196232</b>	(5) <b>196231</b>	(5) <b>196233</b>	(8) <b>196572</b>	(8) <b>196573</b>	(8) <b>195315</b>
Compression Spring	(5) <b>195046</b>	(5) <b>195046</b>	(5) <b>195046</b>	(8) <b>195046</b>	(8) <b>195046</b>	(8) <b>195046</b>
Louver Top and Bottom Support		(2) <b>197056</b>		(2) <b>197189</b>		(2) <b>197190</b>
Louver Frame Side	(2) <b>197057</b>	(2) <b>197058</b>	(2) <b>197059</b>	(2) <b>197186</b>	(2) <b>197187</b>	(2) <b>197188</b>
Screws	(20) <b>195638</b> , #8-18 x 3/8" long AB point, slotted indented serrated hex washer head					
<b>Option CD3 Pkg P/N</b>	<b>197111</b>	<b>197112</b>	<b>197113</b>	<b>201205</b>	<b>201206</b>	<b>201207</b>
Nozzle Section Right Side	(2) <b>196990</b>	(2) <b>196991</b>	(2) <b>196992</b>	(2) <b>197173</b>	(2) <b>197174</b>	(2) <b>197175</b>
Nozzle Section Left Side	(2) <b>196993</b>	(2) <b>196994</b>	(2) <b>196995</b>	(2) <b>197176</b>	(2) <b>197177</b>	(2) <b>197178</b>
Nozzle Section Top	(2) <b>196987</b>	(2) <b>196988</b>	(2) <b>196989</b>	(2) <b>197170</b>	(2) <b>197171</b>	(2) <b>197172</b>
Nozzle Bracket	--	--	--	(2) <b>201708</b>		(2) <b>201709</b>
Nozzle Section Bottom		(2) <b>196996</b>		(2) <b>196997</b>		(2) <b>197179</b>
Screws, #8-18 x 3/8" long AB point, slotted indented serrated hex washer head		(28) <b>195638</b>			(30) <b>195638</b>	
<b>Option CD5 Pkg P/N</b>	<b>202094</b>	<b>202095</b>	<b>202096</b>	<b>202097</b>	<b>202098</b>	<b>202099</b>
<b>Same components as Option CD3 above PLUS</b>						
Vertical Louver	(5) <b>196232</b>	(5) <b>196231</b>	(5) <b>196233</b>	(8) <b>196572</b>	(8) <b>196573</b>	(8) <b>195315</b>
Compression Spring				(8) <b>195046</b>		
Louver Top and Bottom Support		(2) <b>197056</b>		(2) <b>197189</b>		(2) <b>197190</b>
Louver Frame Side	(2) <b>197057</b>	(2) <b>197058</b>	(2) <b>197059</b>	(2) <b>197186</b>	(2) <b>197187</b>	(2) <b>197188</b>
Screws	(22) <b>195638</b> , #8-18 x 3/8" long AB point, slotted indented serrated hex washer head					

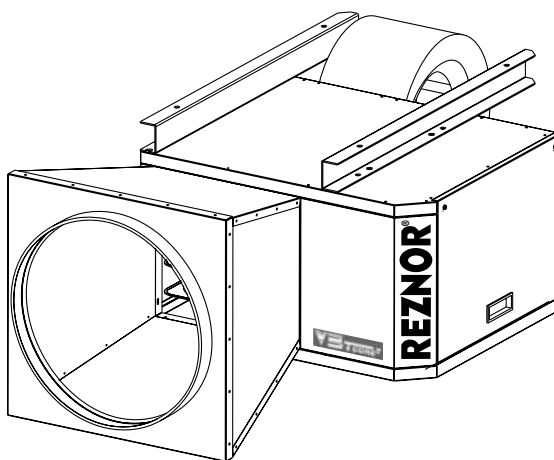
**CODE 144 - Duct Flange, Models UDBP and UDBS (Same as Option CD9)**

<b>Model UDBP and UDBS</b>	<b>30, 45</b>	<b>60, 75</b>	<b>100, 125</b>	<b>150, 175, 200</b>	<b>225, 250</b>	<b>300, 350, 400</b>
<b>Option Pkg P/N</b>	<b>202909</b>	<b>202910</b>	<b>202911</b>	<b>202912</b>	<b>202913</b>	<b>202914</b>
Components (qty in parenthesis):						
Duct Flange Section (Side & Top / Side & Bottom)	(2) 201750	(2) 201751	(2) 201752	(2) 201813	(2) 201814	(2) 201815
Sheetmetal Screws, #10 x 1/2"	(16) 11813	(14) 11813	(16) 11813	(18) 11813		



## Accessories/Options (cont'd)

**CODE 145 - Polytube Adapter,  
Models UDBP and UDBS Sizes  
75-400 (Same as Option CD11)**



Model UDBP and UDBS	75	100, 125	150, 175, 200	225, 250	300, 350, 400
Option Pkg P/N	203086	203087	203088	203089	203090
Components:					
Adapter Top/Bottom	(2) 202962	(2) 202964	(2) 202966	(2) 202968	(2) 202970
Adapter Side	(2) 202961	(2) 202963	(2) 202965	(2) 202967	(2) 202969
Discharge Panel Assy	101249		101250		
Discharge Duct Collar Clamp	101499		146463		
Sheetmetal Screws, #10 x 1/2" long	(52) 11813				
Sheetmetal Screw, #10 x 3/4" long	20859		--		
1/4-20 x 1-1/2" long Hex Head Screw	--		51231		
1/4-20 Hex Nuts	--		7328		
1/4-20 Wing Nut	--		107246		

### CODES 146 and 147 - Guards for Models UDBP and UDBS (Same as Option CD10 and CD12)



**CODE 146,  
Blower Inlet  
Guard in CD10  
and CD12**



**CODE 147, Belt  
Guard in  
Option CD10**

Option CD12 for UDBP and UDBS 30-125		Qty	P/N
Option Pkg P/N			114548
Blower Inlet Guard		1	102474
Screws, #10-16 x 1/2" lg		4	37661

Option CD10, Belt & Blower Guards	150-200		225-400	
Option Pkg P/N	202316		202317	
Components:	Qty	P/N	Qty	P/N
Blower Inlet Guard	1	203079	1	102475
Belt Guard	1	193797	1	193795
Green Wire Assembly	1	202939	1	202939
Screws, #10-16 x 1/2" lg (4 for attaching blower inlet guard; 3 for attaching belt guard; and 1 for attaching ground wire to blower)	8	37661	8	37661

### CODE 148 - Hanger Kits (Same as Options CK8 and CK10)

**Option CK8 - Two-point Suspension**



**Option CK10 - Four-point Suspension**



Size	All
Option CK8 Pkg P/N	98509
Swivel Connector Assembly	(2) 17627
3/8" Lock Washer	(2) 5197
Option CK10 Pkg P/N	98511
Swivel Connector Assembly	(4) 17627
3/8" Lock Washer	(8) 5197
3/8" Hex Nuts	(4) 1438

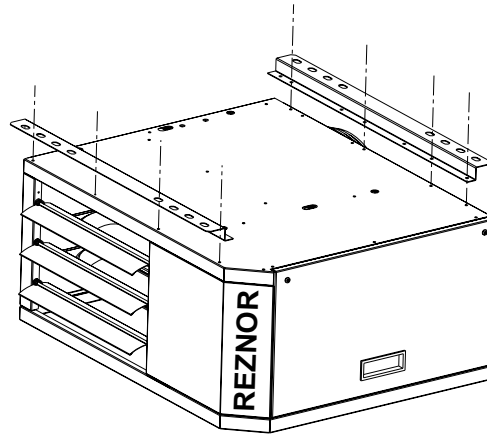


### CODE 150 - Ceiling Suspension Kit for Model UDAP and UDAS Sizes 30-125 (Same as Option CK22)

Models UDAP & UDAS	30, 45, 60, 75, 100, 125
Option CK22 Pkg P/N	197094
Suspension Angle	(2) 195496
Sheetmetal Screw	(1) 195638

Attach ceiling brackets to top, across front and rear of the heater. Use cabinet screws and screw from kit.

**Applies only to Models UDAP and UDAS, Sizes 30-125**



### CODE 151 - Manual Shutoff Valve (Same as Option CE1)



Description	30, 45, 60, 75, 100, 125, 150, 175, 200	225, 250, 300, 350, 400
Option Pkg P/N	15971	15972
Manual Shutoff Ball Valve	196910, 1/2"	196911, 3/4"
Union	1224, 1/2"	1101, 3/4"

## Thermostats and Thermostat Accessories

### CODE 160 - Single-Stage Thermostat, 24 volt, fan switch, P/N 255350



(Same as Option CL1)

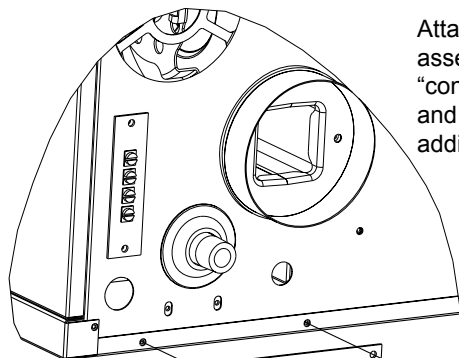
### CODE 161 - Two-Stage Thermostat, 24 volt, fan switch, P/N 220630 (Same as Option CL22)



### CODE 162 - Locking Thermostat Cover, P/N 257464 (Same as Option CM1)



### CODE 163 - Kits for Control of 2-6 Heaters



Attach the relay assembly to the "control" unit and up to five additional units.

Cable Clamp  
All model sizes use existing screw.

Model Sizes 30-125 use existing cabinet screw.  
Model Sizes 150-400 use self drilling screw in the kit.

Relay Bracket Assembly

#### Pkg P/N 197155 for One "Control" Heater and One Additional Heater (Same as Option CL31)

Qty	P/N	Description
1	194808	Transformer 40VA (for the "control" unit)
2	197157	Relay Assemblies each consisting of one P/N 18549, Relay (NOTE: If replacing relay only P/N 98118, WR #134-20102-101, order Kit P/N 263527.), wired and mounted on a specially designed bracket.
2	195249	Self drilling screw for attaching relay bracket
2	16228	Cable Clamp 3/16"
1	197160	Wiring Harness Assembly (brown wires)
2	197164	Wiring Diagram Label

#### Pkg P/N 197156 for Each Additional (4 maximum) "non-controlling" Heater (Same as Option CL32)

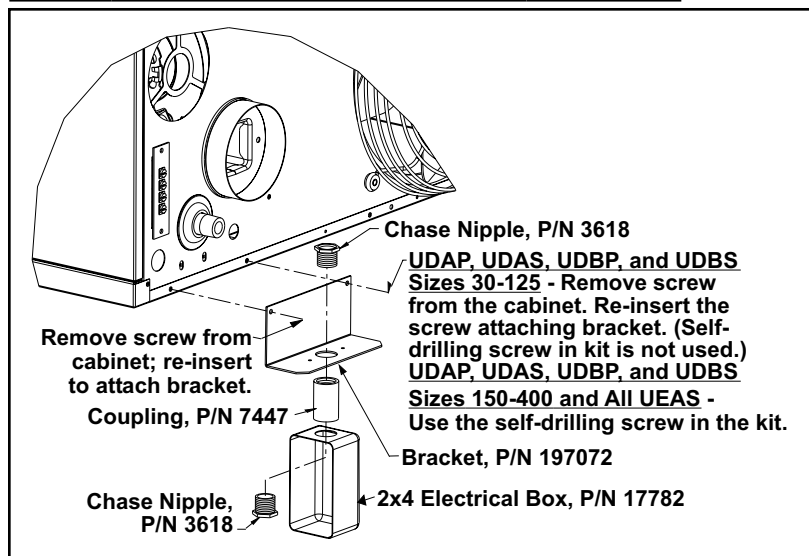
Qty	P/N	Description
1	197157	Relay Assemblies each consisting of one P/N 18549, Relay (NOTE: If replacing relay only P/N 98118, WR #134-20102-101, order Kit P/N 263527.), wired and mounted on a specially designed bracket.
1	195249	Self drilling screw for attaching relay bracket
1	16228	Cable Clamp 3/16"
1	197164	Wiring Diagram Label

## Thermostat Accessories (cont'd)

### CODE 164 - Thermostat Bracket Kit for Models UDAP, UDAS, UDBP, and UDBS (Same as Option CM3)

Thermostat bracket option package, P/N 197077, includes:

Qty	Description	P/N
1	2 x 4 Electrical Box	17782
1	1/2" Coupling conduit connector	7447
2	1/2" Chase Nipples	3618
1	Bracket	197072
1	Screw (self drilling)	195249



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