REZNOR®

Revision: P-OH (02-22) 272437-A

Supersedes: P-OH (01-20) PN272437R1

REPLACEMENT PARTS FOR OIL-FIRED UNIT HEATERS

MODELS OH AND OB



NOTE: Model OH shown. Model OH has a fan for air delivery and model OB, which was discontinued APR 2006, has a blower.

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IMPORTANT

1. Always include complete model and serial number so that any specification change can be considered for parts replacement. It can save time and expense.
2. In keeping with our policy of continuous product improvement, we reserve the right to alter any information shown here. Specifications are subject to change without notice.
3. We reserve the right to substitute functional replacements.
4. Order by Part Number (PN) not by option designation.

REFERENCES

Table 1. Related Technical Manuals Available from Factory Distributor		
Type	**Form**	**PN***
Installation, operation, and maintenance	I-OH	120390
Replacement fan/blower controls and limit controls	P-FAN&LIMIT	147678
Installation instructions for oil tank heater stand (option ST1)	I-OIL-HS	122407
Optional draft booster relay installation	I-OIL-DBR	110781
Optional vertical louver installation	I-OIL-VL	122408
*Also available at **www.reznorhvac.com**.		

RATING PLATE AND KEY

REZNOR®
MERCER, PA., U.S.A. 16137
MADE IN MEXICO
OIL FIRED UNIT HEATER
CSA CERTIFIED TO CSA/CAN B140.4 1974
FOR INDUSTRIAL/COMMERCIAL USE ONLY
FOR USE WITH INTEGRAL GROUP 1 OR 2 PRIMARY SAFETY CONTROLS
MODEL [A] OIL NOT HEAVIER THAN NO.2
SERIAL NO. [B] HP
USE COPPER CONDUCTORS ONLY
115 VOLTS 1 PH 60 HZ [C] AMPS
MINIMUM CIRCUIT AMPACITY [D] AMPS
MAXIMUM UNIT FUSE [E] AMPS
TYPE OF OIL [F]
FIRING RATE [G] G.P.H.
INPUT [H] BTU/HR
THERMAL OUTPUT CAPACITY [I] BTU/HR
NOZZLE TYPE; DELEVAN [J] G.P.H. [K] DEGREES TYPE B
OIL PUMP PRESSURE [L] PSIG
MAXIMUM OVERFIRE PRESSURE [M] IN.W.C.
EXTERNAL STATIC PRESSURE [N] IN.W.C.
FLUE OUTLET PRESSURE RANGE (DRAFT) [O] IN.W.C.
BURNER PART NUMBER [P] BECKETT

THIS UNIT IS FOR INSTALLATION SUSPENDED FROM A CEILING WITH CLEARANCES TO COMBUSTIBLES MATERIALS NO LESS THAN.
TOP - [Q] BOTTOM - 6" SIDES - 18"
REAR - [R] FRONT - 48" FLUE PIPE - 18"
IN CANADA, REFERENCE CSA B139-M91 FOR INSTALLATION IN GARAGES, ETC.
IN USA, INSTALL UNIT IN ACCORDANCE WITH THE FOLLOWING STANDARDS;
ANSI/NFPA 409-1990 FOR AIRCRAFT HANGARS
ANSI/NFPA 88A-1991 FOR PARKING STRUCTURES
ANSI/NFPA 88B-1991 FOR REPAIR GARAGES
THIS UNIT [S] WITH AIR DUCTS
THIS UNIT IS NOT FOR USE WITH AIR FILTERS.

A = Model and size
B = Blower motor horsepower
C = Input amps
D = Minimum circuit ampacity (amps)
E = Maximum unit fuse (amps)
F = Fuel type (No. 2 oil)
G = Firing rate (GPH)
H = Normal BTUh input (sea level)
I = Thermal BTUh output (sea level)
J = Nozzle type (Delevan, GPH)
K = Nozzle spray angle (degrees)
L = Oil pump pressure (PSIG)
M = Maximum overfire pressure (IN WC)
N = External static pressure (IN WC)
O = Flue outlet draft (IN WC)
P = Burner PN (Beckett)
Q = Top clearance (inches)
R = Side clearance (inches)
S = Used or not used with air ducts

SERIAL NUMBER

Serial number format changed in June of 2015. Use the following information to decode system serial numbers:

Decoding a System Serial Number for ALL Models *Before* JUN 2015

Serial No. Sample: **BEA 140 0000 B**
Elements of No.: **1 | 2 | 3 | 4**

Key:

1 = Date of manufacture (refer to **Table 2**)
2 = Size (BTUh input)
3 = Consecutive number
4 = Manufacturing designation

Decoding a System Serial Number for ALL Models *After* MAY 2015

Serial No. Sample: **BEA 3062 000000**
Elements Key No.: **1 | 2 | 3**

Key:

1 = Date of manufacture (refer to **Table 2**)
2 = Plant of manufacture (3060 = Mercer, 3062 = Monterrey)
3 = Consecutive number

Table 2. Serial Number Date Codes (Month and Year)

Year	Month											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1992	ARA	ARB	ARC	ARD	ARE	ARF	ARG	ARH	ARI	ARJ	ARK	ARL
1993	ASA	ASB	ASC	ASD	ASE	ASF	ASG	ASH	ASI	ASJ	ASK	ASL
1994	ATA	ATB	ATC	ATD	ATE	ATF	ATG	ATH	ATI	ATJ	ATK	ATL
1995	AUA	AUB	AUC	AUD	AUE	AUF	AUG	AUH	AUI	AUJ	AUK	AUL
1996	AVA	AVB	AVC	AVD	AVE	AVF	AVG	AVH	AVI	AVJ	AVK	AVL
1997	AWA	AWB	AWC	AWD	AWE	AWF	AWG	AWH	AWI	AWJ	AWK	AWL
1998	AXA	AXB	AXC	AXD	AXE	AXF	AXG	AXH	AXI	AXJ	AXK	AXL
1999	AYA	AYB	AYC	AYD	AYE	AYF	AYG	AYH	AYI	AYJ	AYK	AYL
2000	AZA	AZB	AZC	AZD	AZE	AZF	AZG	AZH	AZI	AZJ	AZK	AZL
2001	BAA	BAB	BAC	BAD	BAE	BAF	BAG	BAH	BAI	BAJ	BAK	BAL
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	BTA	BTB	BTC	BTD	BTE	BTF	BTG	BTH	BTI	BTJ	BTK	BTL
2021	BUA	BUB	BUC	BUD	BUE	BUF	BUG	BUH	BUI	BUJ	BUK	BUL
2022	BVA	BVB	BVC	BVD	BVE	BVF	BVG	BVH	BVI	BVJ	BVK	BVL
2023	BWA	BWB	BWC	BWD	BWE	BWF	BWG	BWH	BWI	BWJ	BWK	BWL
2024	BXA	BXB	BXC	BXD	BXE	BXF	BXG	BXH	BXI	BXJ	BXK	BXL
2025	BYA	BYB	BYC	BYD	BYE	BYF	BYG	BYH	BYI	BYJ	BYK	BYL

ELECTRICAL COMPONENTS

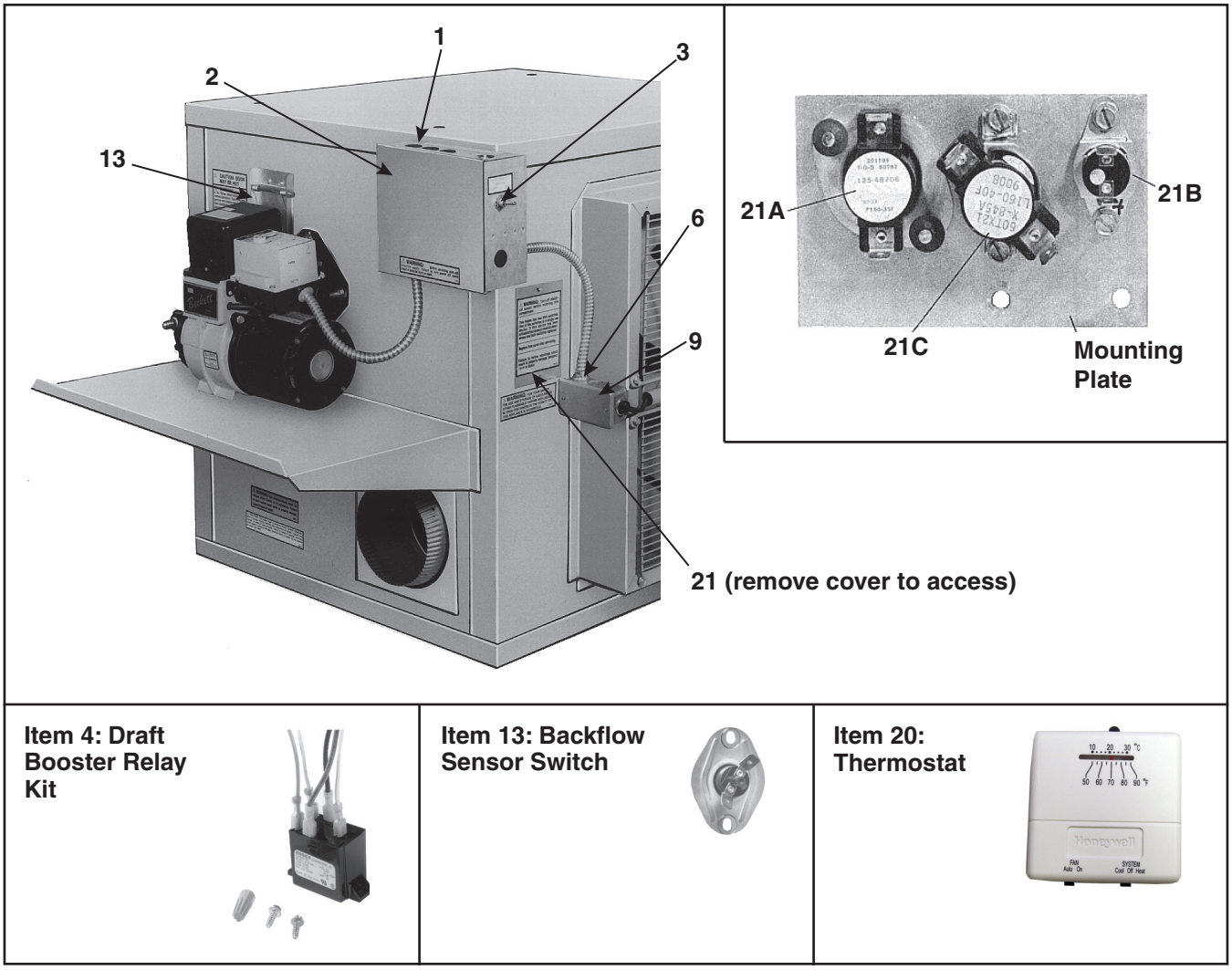


Figure 1. Electrical Components (Refer to Table 3)

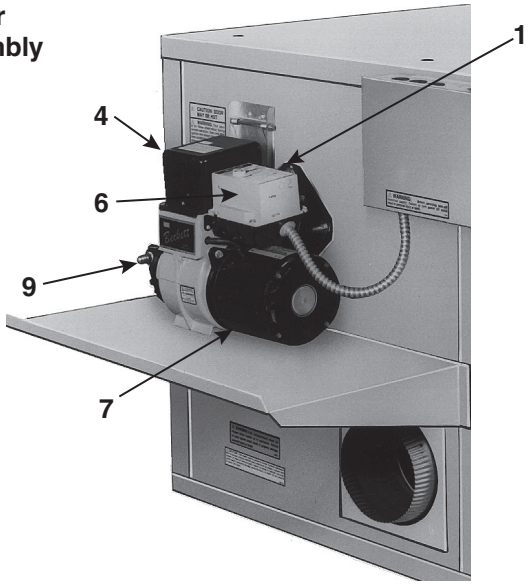
Table 3. Electrical Components

Item No.	Component	Description	Unit Size	
			095	140, 190
			PN	
1	Electrical box	Control, main	119810	
2	Cover	Electrical box	119812	
3	Control switch	Main, DPST, 20A, Cutler Hammer #7630K40	104840	
4	Relay kit	Draft booster, same as option DH1, includes wiring, relay, hardware, and instructions	110780	
4A	Draft booster relay	Replacement kit, for units manufactured ***before*** AUG 2011	263530	
		For units manufactured ***after*** JUL 2011	102385	
5	Bushing	Open/closed, Heyco #0CB-562	98394	
6	Cable clamp	1/4-inch, Heyco #3324	52961	
7	Dart fastener	TRW #PC47307EV2001	101798	
8	Terminal block		144972	
9	Junction box	Blower/fan, 2 × 4, Steel City #5836	17782	
10	Strain relief bushing	Heyco #SR-6N3-4	100393	
11		90-degree, Heyco #SR-20-1	96449	
12	Adapter	Heyco #7572	107165	
13	Switch	Backflow sensor, opens @ 275°F, for CSA units manufactured ***after*** 2005	121275	
14	Gasket	Backflow sensor switch	121341	
15	Valve	Oil safety,option DC1, Suntec #PRV-38	50350	
16	Solenoid valve	Oil burner, same as option DD1, GC #K271FA312C5	43487	
17	Oil booster pump	30 GPH, same as option DA1, Sunstrand #BH-1030M	37862	
18		70 GPH, same as option DA21, Sunstrand #BH-1070M	37863	
19	Pressure switch	Booster pump, same as option DF1, Sunstrand #128117	37864	
20	Thermostat	Single-stage, 24V, 50–90°F, same as option CL1	255350	
		Option CL1, Honeywell #T87F3665	39581	
21*	Fan and limit control assembly	Includes plate and all controls	123977 (replaces 120679)	123973 (replaces 104837)
21A	Control	Fan/blower	146465	
21B	Limit	Super	106845	
21C	High limit	Circulating air	120680	106847

*Temperature settings on the current replacement fan control are different from the previous control. However, because of a change in construction of the switch, these controls will perform a nearly identical control function.

BURNER ASSEMBLY COMPONENTS

Burner Assembly



NOTE: Obsolete ignition controller (item 6) shown.

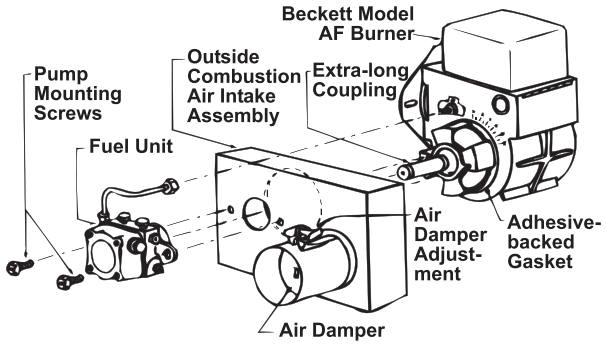
Item 5: Cad Cell Detector and Eye



Item 6: Ignition Controller



Item 17: Outside Combustion Air Adapter Kit



Exploded View of Beckett Oil Burner

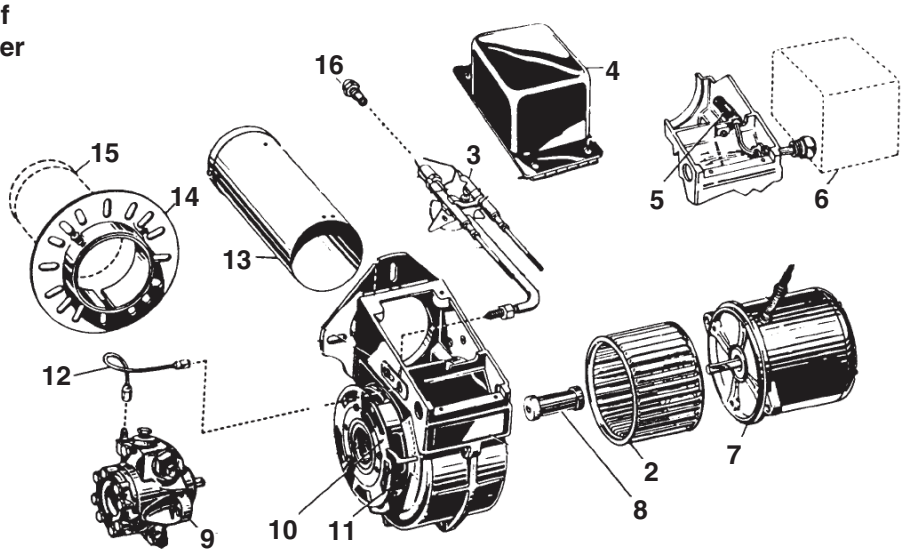


Figure 2. Burner Assembly Components (Refer to Table 4)

Table 4. Burner Assembly Components

Item No.	Component	Description	Unit Size		
			095	140	190
			PN		
—	Burner assembly*	115V	207493	207494	
1	Gasket	Burner assembly, Beckett #3416	103420		
2	Blower wheel	Combustion air	41599		
3	Electrode	Assembly	59449		
4	Transformer	Includes gaskets and electrode connectors	220615		
4A	Connector	Electrode/transformer, spring-type, quantity = two (2)	97033		
5	Detector and eye	Cad cell	123195		
6	Controller	Ignition	262700 (replaces 41604)		
7	Motor	Burner	41598		
8	Coupling		41600		
9	Burner pump	Single-stage, Beckett #2460	131460		
		Two-stage, Beckett #2583	41601		
10	Shutter	Air	41592		
11	Band	Air	41593		
12	Connector tube	Assembly	41602		
13	Tube	Air	41607		
14	Flange		41595		
15	Head	Retention	45891	146467	50786
16	Nozzle**	Delavan, 0.85 × 80B	32437†	—	
		Delavan, 1.25 × 90B	—	120068†	—
		Delavan, 1.65 × 90B	—		120069†
		Delavan, 0.85 × 80B	32437‡	—	
		Delavan, 1.25 × 70B	—	146816‡	—
		Delavan, 1.35 × 70B	—		146815‡
17	Adapter kit	Outside combustion air, same as option DE1 (not available in Canada)	40274		

*Includes items 1–16.

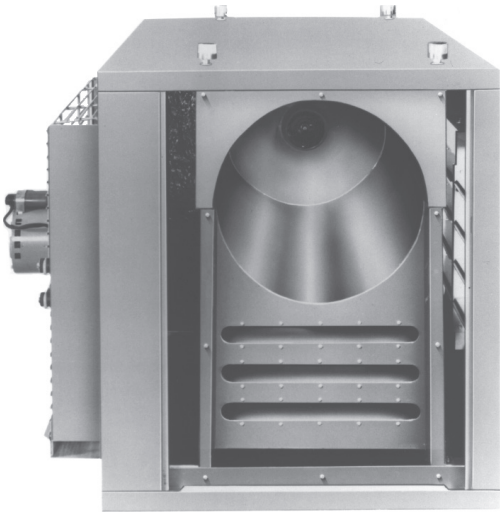
**Always check the nozzle size and replace it with an identical nozzle.

†Used on units manufactured ***before*** JUN 1996.

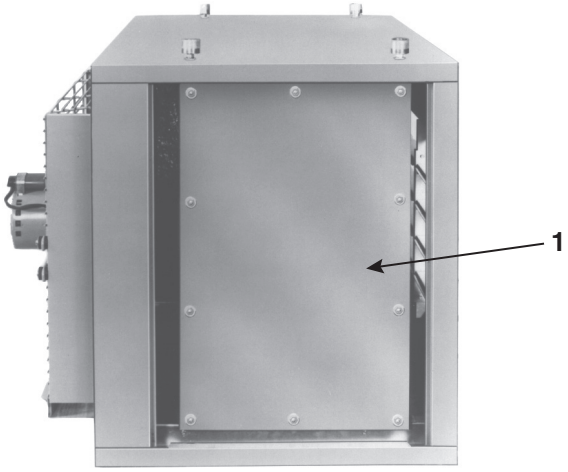
‡Used on units manufactured ***after*** MAY 1996.

HEAT EXCHANGER/COMBUSTION CHAMBER ASSEMBLY COMPONENTS

Heat Exchanger/Combustion Chamber Assembly



NOTE: Turning box end of unit shown with large inner access door (item 1) removed.



Exhaust Box End

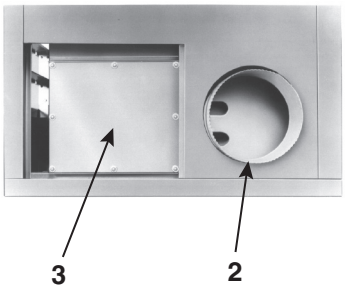


Figure 3. Heat Exchanger/Combustion Chamber Assembly (Refer to Table 5)

Table 5. Heat Exchanger/Combustion Chamber Assembly Components

Item No.	Component	Description	Unit Size	
			095	140, 190
			PN	
—	Assembly	Heat exchanger/combustion chamber	221472	221473
1	Access door	Large inner	115140	115140
1A	Replacement gasket	Large inner access door	120057	120057
2	Plate assembly	Exhaust collar	119367	115144
3	Cover	Inner exhaust box	115150	115150
3A	Replacement gasket	Inner exhaust box	115151	115151
4	Tube assembly	Viewport	104761	104761

*Includes items 1–6.

CABINET COMPONENTS

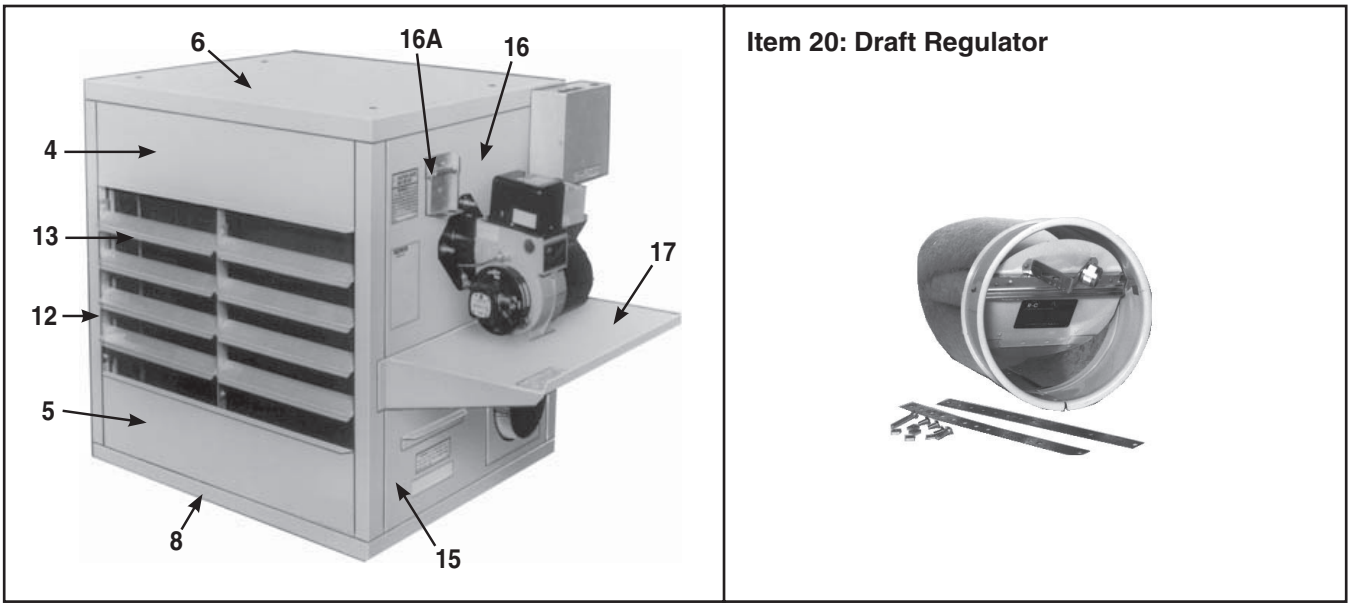


Figure 4. Cabinet Components (Refer to Table 6)

Table 6. Cabinet Components

Item No.	Component	Description	Unit Size	
			095	140, 190
			PN (Quantity)*	
1	Panel	Fan, includes corner posts, for OH models only (see **Figure 5**)	104744	104745
2		Top back filler, for OB models only (see **Figure 6**)	104795	104796
3		Bottom back filler, for OB models only (see **Figure 6**)	104795	104797
4		Top front	104747	
5		Bottom front	104747	
6		Top outer	104742	
7		Top inner	104738	
8		Bottom outer	104742	
9		Bottom inner	104738	
9A	Heat exchanger support	Attached with screws to item 9	104736 (2)	
9B	Door stop		104753 (2)	
10	Corner post	Left rear, assembly, for OB models only (see **Figure 6**)	107166	
11		Right rear, blower post assembly, for OB models only (see **Figure 6**)	107167	107168
12		Front	104743 (2)	
13	Louver frame with horizontal louvers	For vertical louvers, refer to **Vertical Louvers** section	94857 (2)	
14		Center	—	104836
15	Access door	Assembly, outer exhaust, includes insulation	115153	
16	Burner panel assembly	Includes insulation, for UL units	107128	
		Includes backflow sensor switch (refer to **Table 3**) and insulation, for CSA units	147242	
16A	View port cover and bracket assembly	For UL units	104768	
		For CSA units	147352	
17	Service tray	Attached with rivets on units manufactured ***before*** MAY 1995	104757	
		Attached with screws on units manufactured ***after*** APR 1995	140866	
18	Door assembly	Outer combustion chamber, includes insulation	115155	
19	Access panel	Fan and limit control access (see **Figure 5**)	194565	
20	Draft regulator** (option DB1)	7-inch	37865	—
		8-inch	—	37866
21	Door latch	Kit	124067	
22	Hole plug	For corner leg, Heyco #437-2633	141747	

*Quantity is one (1) unless otherwise indicated.

**Required in Canada. Same or equivalent required in US.

FAN COMPONENTS FOR MODEL OH

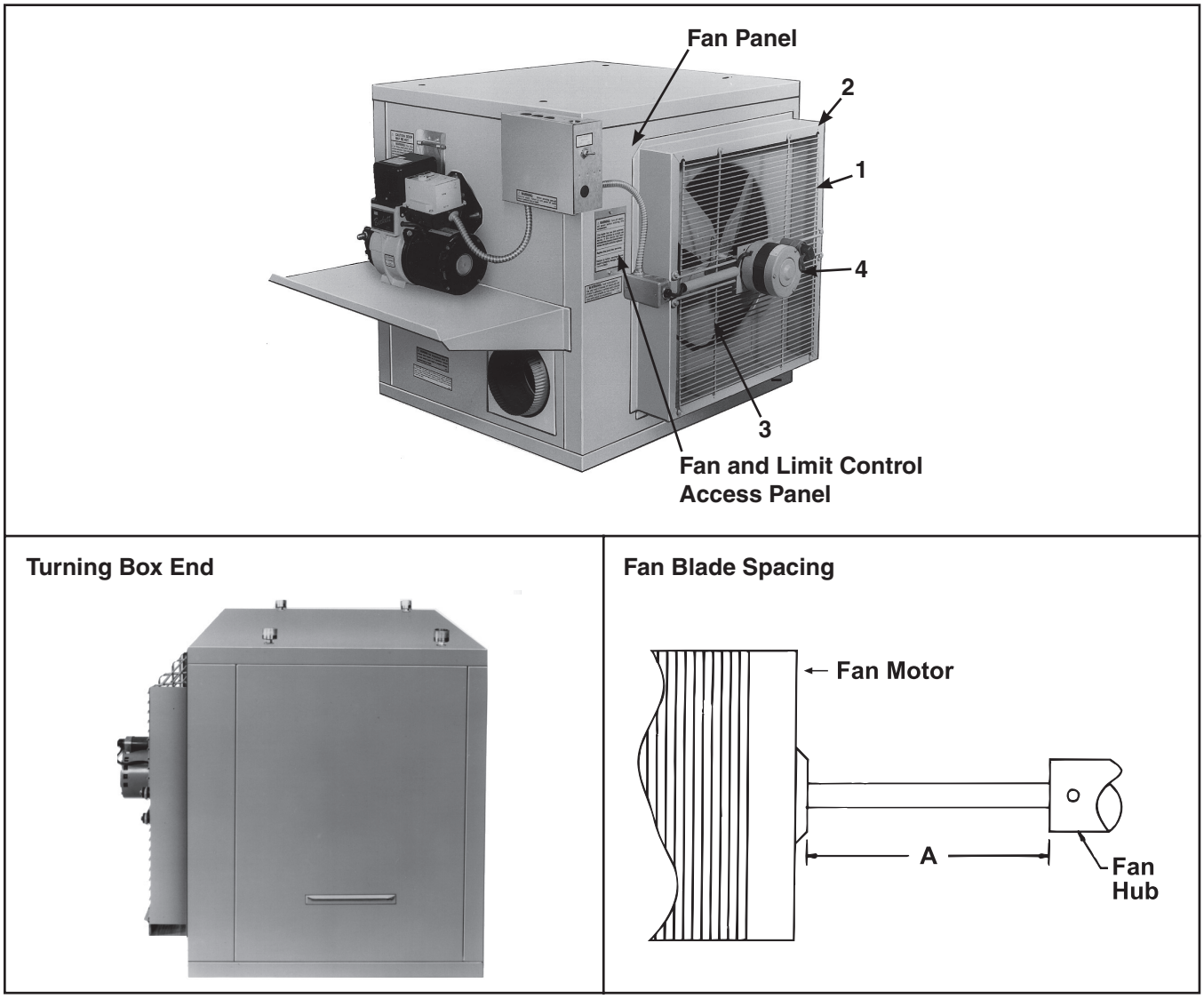


Figure 5. Fan Components for Model OH (Refer to Table 7)

Table 7. Fan Components for Model OH

Item No.	Component	Description	Unit Size	
			095	140, 190
			PN	
1	Fan guard	Assembly	104818	
2	Mount	Assembly, fan guard	104823	
3	Fan blade assembly*	18–33 inches, Lau #F07HO1729, setscrew = 80 (±10), dimension A = 2-7/8 inches (73 mm)	125564	—
		22–36 inches, Lau #F10H8.7, setscrew = 150 (±15), dimension A = 3-1/2 inches (89 mm)	—	96383
4	Fan motor	1/8-HP, A.O. Smith #322P986	102380	—
		1/4-HP, #F48AE65A13	—	137044

*See Figure 5 for dimension A location.

BLOWER COMPONENTS FOR MODEL OB

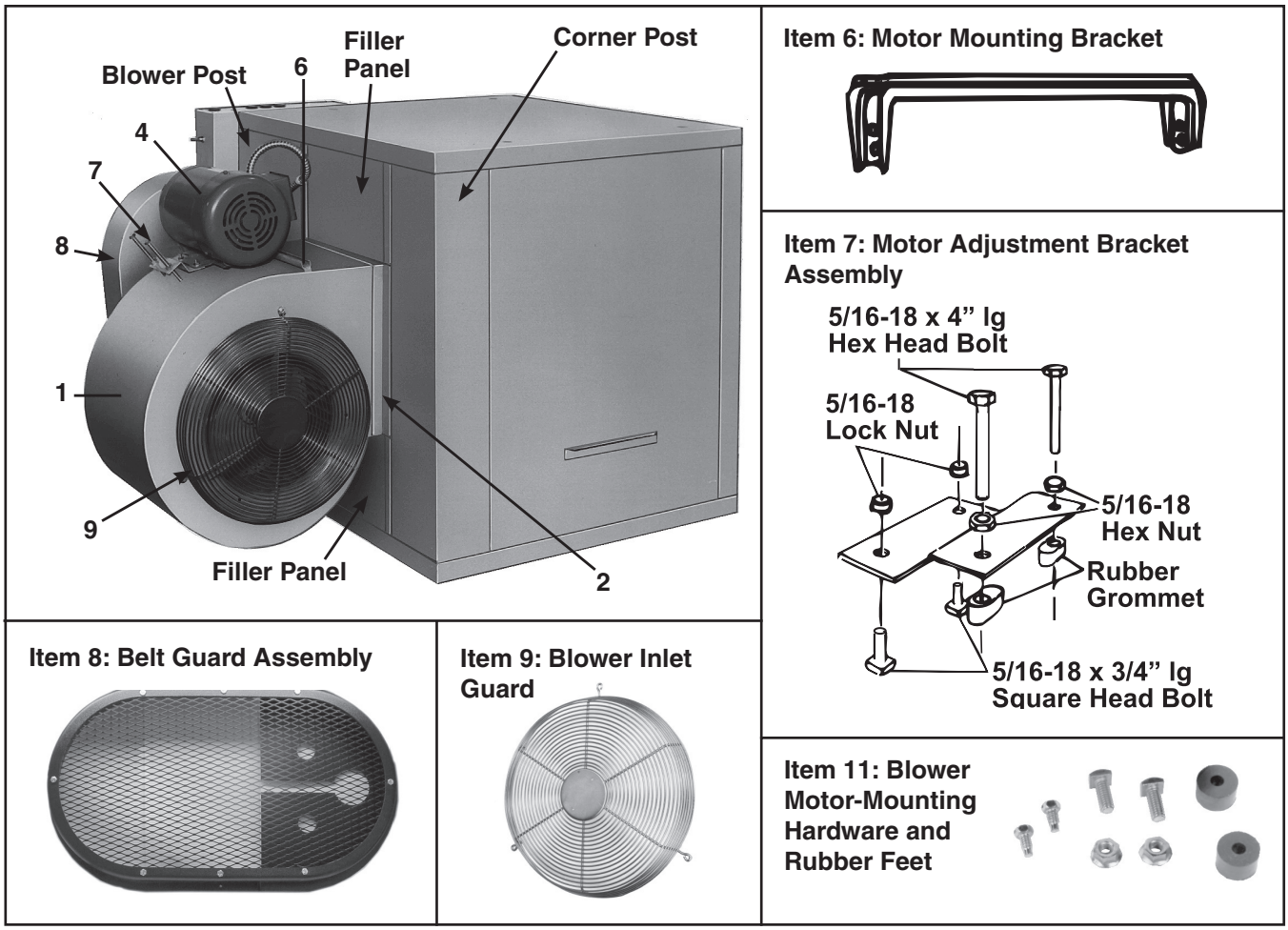


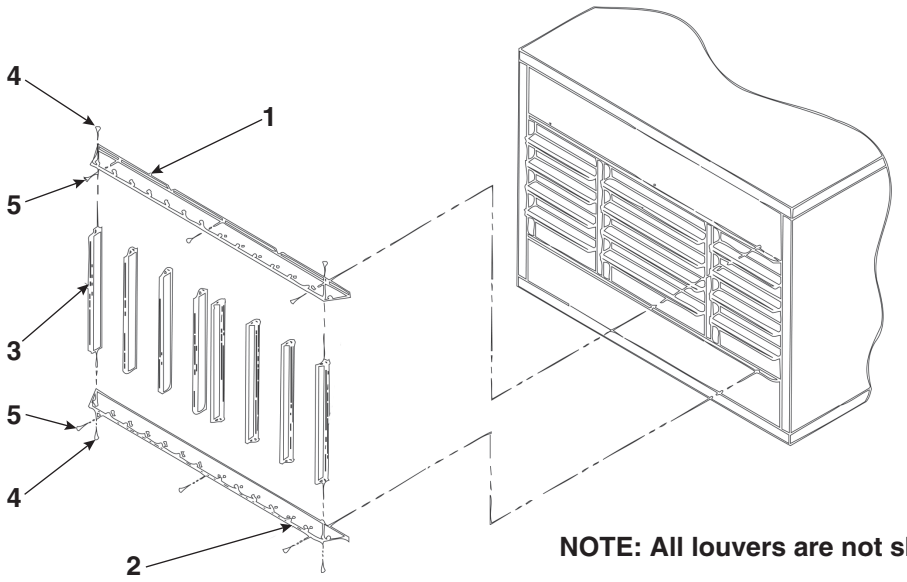
Figure 6. Blower Components for Model OB (Refer to Table 8)

Table 8. Blower Components for Model OB

Item No.	Component	Description	Unit Size		
			095	140	190
			PN		
1	Blower*	Lau #A12-9ACD	100657	—	
		Lau #A15-11ACD	—	100658	
2	Mounting angle	Blower, quantity = two (2)	100889	100889	100889
3	Blower sheave	1-inch, Browning #AL-104	116402	—	
		1-inch, Browning #AL-94	—	116401	—
		1-inch, Browning #AL-84	—		116400
4	Blower motor	1/2-HP, Century #8-15917001	31273		—
		3/4-HP, Century #F353	—		115860
5	Motor sheave	5/8-inch, Browning #1VL40	7962	—	
		5/8-inch, Browning #1VL34	—	13580	
6	Mounting bracket	Motor	102533	102534	
7	Bracket assembly	Motor adjustment	44411		
8	Belt Guard	Assembly	193975		
9	Guard	Blower Inlet	102475		
10	Belt	Browning #4L520	6187	—	
		Browning #A51	—	65404	—
		Browning #A50	—		88558
11	Hardware	Blower motor-mounting and rubber feet in hardware bag	64940		
12	Blower key	1/4-inch square × 1-1/4-inch square	16099		

*Includes blower housing, wheel, shaft, bearings, and motor mounting bracket.

VERTICAL LOUVERS



NOTE: All louvers are not shown.

Figure 7. Vertical Louvers (Refer to Table 9)

Table 9. Vertical Louver Components

Item No.	Component	Description	Unit Size	
			095	140, 190
			PN (Quantity)*	
—	Option package	Option CD1	121858	121859
1	Member	Top	119859	119860
2		Bottom		
3	Louver	Vertical	95937 (10)	95937 (14)
4	Screw	Sheet metal	11813 (20)	11813 (28)
5		Self-drilling, TEK	37661 (4)	37661 (6)

*Quantity is one (1) unless otherwise indicated.

MISCELLANEOUS COMPONENTS

Table 10. Miscellaneous Components

Component	Description	PN
Touchup paint	10-OZ spray can, tawny beige	37919
	12-OZ can, maroon (louvers)	207432
Hanger kit	1/2-inch swivel connectors, same as option CK10	134476
	3/8-inch swivel connectors, for units manufactured ***before*** 1994	98511
Oil tank*	250-gallon, bench-type, model OT250, may be used with either model OH or OB units	—
Stand*	Oil tank, same as option ST1, for model OH only	202829

*Refer to form I-OIL-HS (PN 122407) listed in Table 1.

US Installations

Canadian Installations

Specifications and illustrations subject to change without notice or incurring obligations.
Latest version of this manual is available at www.reznorhvac.com.
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