

GAS-FIRED INDOOR HEATER REPLACEMENT PARTS

MODEL CAUA AND CASED COOLING COIL MODEL ACU



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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/maintenance	CAUA-IOM	164771
Gas conversion	CAUA-GC	170635
Ignition control replacement	CAUA-IGN CNTRL	178435
Mixing box installation	CAUA-GA1-GA9	170640
Inlet air mounting base installation	CAUA-AVA2	176515
Return air filter cabinet installation	CAUA-CW4-CW16	166162
Cased cooling coil installation	CAUA-COOLING-COIL	166152
Discharge plenum installation	CAUA-CD60,61,62	176514
Burner condensate drain kit installation	CAUA-COND-DRAIN	165012
Ignition system and gas valve replacement parts	P-VALVES	263995

*Also available at www.reznorhvac.com.

SERIAL AND MODEL NUMBERS

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

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

Serial No. Sample: BLJ 78 Q3 N 00000
Elements Key No.: 1 | 2 | 3 | 4 | 5

Key:

- 1 = Date code (refer to [Table 2](#))
- 2 = Type of ignition system (refer to **P-VALVES** manual listed in [Table 1](#))
- 3 = Type of gas valve (refer to **P-VALVES** manual listed in [Table 1](#))
- 4 = Gas (N = natural; L = propane)
- 5 = Consecutive number

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

Serial No. Sample: BOG 3062 00000
Elements Key No.: 1 | 2 | 3

Key:

- 1 = Date code (refer to [Table 2](#))
- 2 = Plant of manufacture (3060 = Mercer; 3062 = Monterrey)
- 3 = Consecutive number

Decoding a Model Number for ALL Models *Before* JUN 2015

Model No. Sample: CAUA 200 — —
Elements Key No.: 1 | 2 | 3 | 4

Key:

- 1 = Model
- 2 = Unit size
- 3 = Series (currently blank—when recertified, serial number will be added)
- 3 = Suffix (-S = SST heat exchanger, -2 = two-stage gas valve, -H = factory-built for high elevation)

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

Year	Month											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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
2026	BZA	BZB	BZC	BZD	BZE	BZF	BZG	BZH	BZI	BZJ	BZK	BZL
2027	CAA	CAB	CAC	CAD	CAE	CAF	CAG	CAH	CAI	CAJ	CAK	CAL
2028	CBA	CBB	CBC	CBD	CBE	CBF	CBG	CBH	CBI	CBJ	CBK	CBL
2029	CCA	CCB	CCC	CCD	CCE	CCF	CCG	CCH	CCI	CCJ	CCK	CCL
2030	CDA	CDB	cdc	CDD	CDE	CDF	CDG	CDH	CDI	CDJ	CDK	CDL
2031	CEA	CEB	CEC	CED	CEE	CEF	CEG	CEH	CEI	CEJ	CEK	CEL
2032	CFA	CFB	CFC	CFD	CFE	CFF	CFG	CFH	CFI	CFJ	CFK	CFL
2033	CGA	CGB	CGC	CGD	CGE	CGF	CGG	CGH	CGI	CGJ	CGK	CGL
2034	CHA	CHB	CHC	CHD	CHE	CHF	CHG	CHH	CHI	CHJ	CHK	CHL
2035	CIA	CIB	CIC	CID	CIE	CIF	CIG	CIH	CII	CIJ	CIK	CIL

ELECTRICAL COMPONENTS

NOTES:

- A typical control panel is shown in [Figure 1](#).
- Electrical components and their locations are listed in [Table 3](#).
- Individual electrical components are shown in [Figure 2](#).

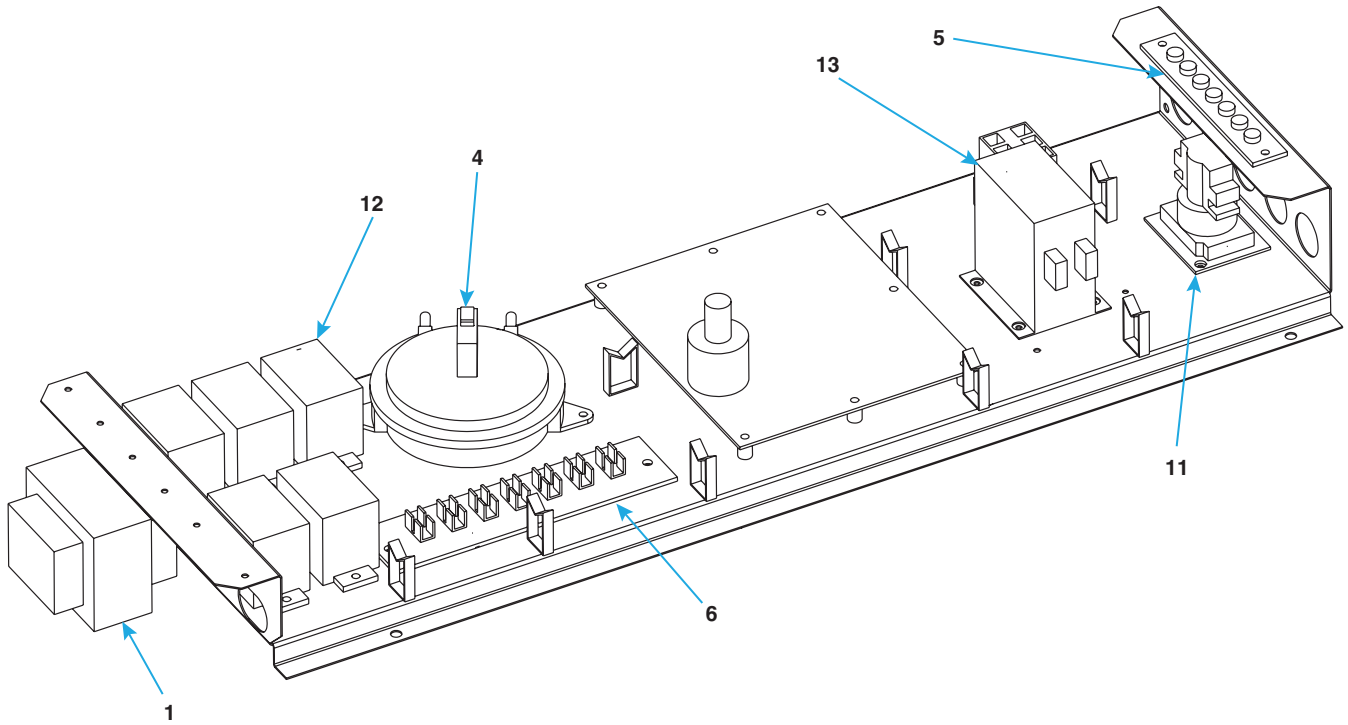


Figure 1. Electrical Control Panel (Refer to [Table 3](#))

Table 3. Electrical Components

Item No.	Component	Description	Unit Size			Location
			150, 200	250, 300	350, 400	
			PN (Quantity)*			
1	Transformer	40VA, 208/240V to 24V (Basler #BE21539001)	103497			Control panel
1A	Bracket	Transformer	164518			
2	Transformer	25kVA, 480/240V, enclosed (Hevi-Duty #HS1B250)	166740			
		25kVA , 575/240V, enclosed (Hevi-Duty #HS10B250)	113556			
3	Ignition board	230V, for units manufactured <i>after</i> FEB 2009 (UTEC #1097-211)	195573			
3A	Replacement kit	For replacing RAM #3MC4-06 or J/C #G822KCC-5401D on units manufactured <i>before</i> MAR 2009	258251			
4	Pressure switch	0.75 IN WC, 0–4000 feet elevation, red label, replaces PN 173317 or 164327	203933			
		0.70 IN WC, >4000 feet elevation, pink label, replaces PN 207171, 164793, or 173318	205446			
5	Terminal strip	7-pole, thermostat (Doran #5959-7)	164545			
6		7-pole, unit	164544			
7	Wire saddle	Locking (LWS-A-3-01)	123606			
8	Terminal block	Supply wiring (KT3)	144972			
8A	Mounting adapter	Terminal block end (KAD)	144973			
9	Tubing	Silicone rubber, 6-inch-long, switch to venter	148986			
10		Silicone rubber, 13-inch-long, switch to burner	174399	—		
		Silicone rubber, 18-inch-long, switch to burner	—	174400		
11	Relay	Time delay, type 12s20	136758			
12	Relay	DPDT, plug-in	211411			
12A	Socket	Relay	211415			
12B	Replacement kit	Relay, PN 14747 (WR #134-20102-101)	263527			
		Relay, PN 103317 (Products Unlimited #9400-04Q180)				
13	Contactor	1PH, 20A, 2-pole (Products Unlimited #3100-20U380)	164791			
		3PH (Hartland #HCC-3XUO1CY)	119627			
14	Transformer	208/240V to 24V, 40VA (BE21539001)	103497			
15	Electrical box	Blower with direct-drive motor	164702			
15A	Cover	Blower electrical box	164703			
16	Blower motor	Direct-drive, 1-HP, 3-speed (AO Smith #98AC006)	164329	164329 (2)		
16A	Capacitor	Blower motor	205150			
16B	Clamp	Capacitor	204002			
16C	Felt	Capacitor clamp (AO Smith #166A729H01)	171529			
16D	Boot	Capacitor (Syntex #M-78)	103182			
17	Switch	Door interlock (Honeywell #1DM18)	116023			
18	Sensor	Flame (Channel Products #1259-85)	147165			
19	Limit control, manual reset	270°F, 60-inch capillary (Thermodisc #10H11)	148588	—	148588	
		300°F, 54-inch capillary (Thermodisc #10H11)	—	164792	—	
20	Electrode	Spark (Channel Products #1659-92)	147166			
20A	Boot	Spark electrode	156032			
21	Cable	Ignition, 18-inch (RAM #HV96009)	257665			
22	Switch	Flame rollout , 225°F (TOD #35TX46)	112752	—	112752	
		Flame rollout , 275°F (TOD #35TX46)	—	121275	—	
23	Ductstat	Includes capillary tubing, option AG3, units manufactured <i>before</i> MAR 2022, no longer available—replaced by PN 211481	41700			
		Two-stage, 50–120°F, 10-foot capillary, option AG3, units manufactured <i>after</i> FEB 2022, replaces PN 41700—note that terminal designations are different (Jumo #6000444832)	211481			
24	Pressure switch	Dirty filter, field-adjustable, 0.17–5.00 (±0.05) IN WC range (Cleveland Controls #RFS-4100-040)	105507			

*Quantity is one (1) unless otherwise indicated.

ELECTRICAL COMPONENTS—CONTINUED


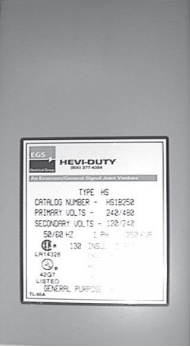
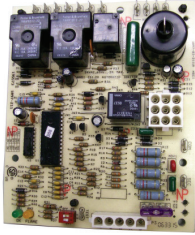




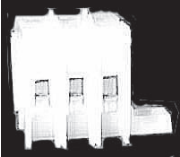














<p>Item 1: Transformer</p> 	<p>Item 2: Transformer</p> 	<p>Item 3: Ignition Board</p> 	<p>Item 4: Pressure Switch</p> 
<p>Item 5: Thermostat Terminal Strip</p> 	<p>Item 6: Unit Terminal Strip</p> 	<p>Item 7: Wire Saddle</p> 	<p>Item 8: Terminal Block</p>  <p>Item 8A: Mounting Adapter</p> 
<p>Item 11: Time Delay Relay</p> 	<p>Item 12: Relay</p>  <p>Item 12A: Socket</p> 	<p>Item 13: Contactor</p> 	<p>Item 14: Transformer</p> 
<p>Item 16: Blower Motor</p> 	<p>Item 17: Door Interlock Switch</p> 	<p>Item 18: Flame Sensor</p> 	<p>Item 19: Limit Control</p> 
<p>Items 20 and 20A: Spark Electrode and Boot</p> 	<p>Item 21: Ignition Cable</p> 	<p>Item 22: Flame Rollout Switch</p> 	<p>Item 23: Ductstat</p> 

Figure 2. Individual Electrical Components (Refer to [Table 3](#))

THERMOSTAT COMPONENTS

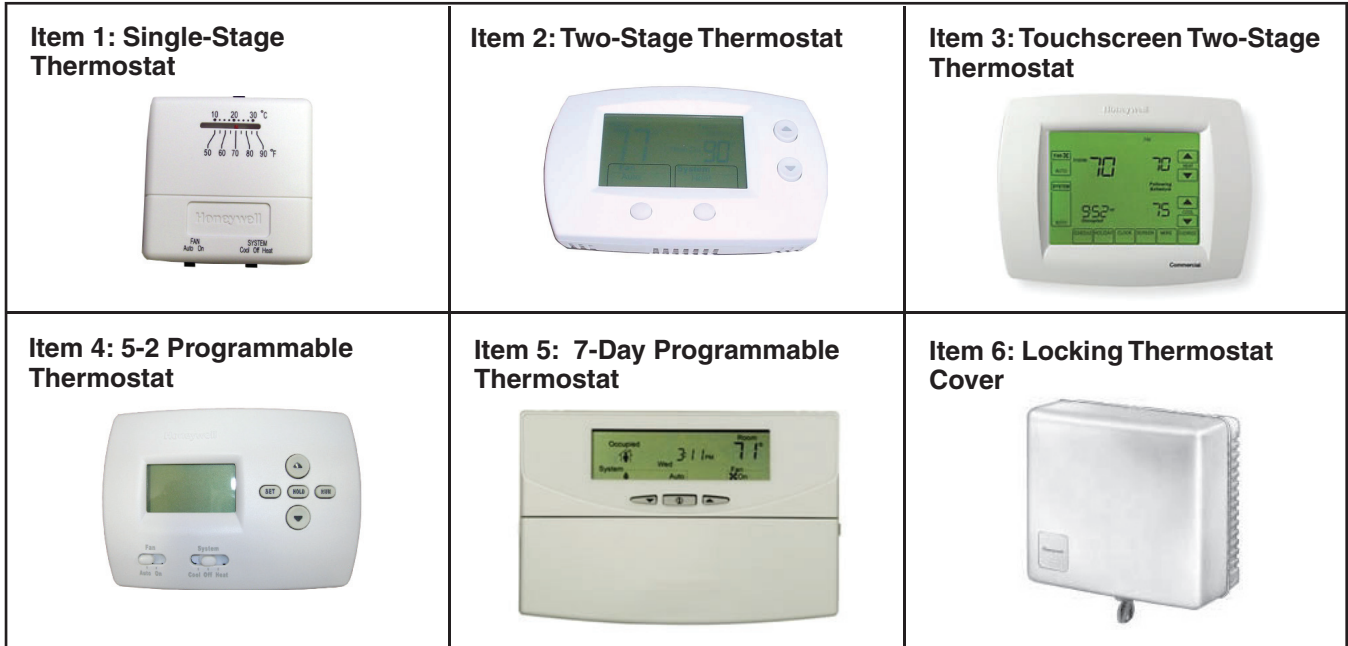


Figure 3. **Thermostat** Components (Refer to [Table 4](#))

Table 4. Thermostat Components				
Item No.	Option	Thermostat Type	Description	PN
1	CL1	Single-stage	24V (Honeywell #T812C1000)	255350
2	CL22	Two-stage	24V (M/H #TH5220D1029) (replaces PNs 93435, 93436, and 93437)	220630
3	CL23	Touchscreen two-stage	24V, 7-day programmable (M/H #TB8220U1003)	257338
4	CL52	5-2 programmable	24V (M/H #TH411D1007) (replaces thermostat P/N 39581 with subbase 15954 and thermostat 205397)	220632
5	CL33	7-day programmable two-stage	24V (M/H #T7350B1002) (replaces PN 110158)	221038
6	CM1	Locking thermostat cover for items 1–4	6-1/2 × 7-1/2 × 2-15/16 inches (165 × 191 × 75 mm)	257464
	CM1B		7-1/4 × 9-3/4 × 3-3/8 inches (184 × 248 × 86 mm)	257463

REMOTE CONSOLE COMPONENTS

NOTES:

- Remote consoles (RC option) include a mounting ring so that the console may either be recessed or wall-mounted.
- The box is 16-gauge steel with knockout holes for field wiring and the cover is made of plastic with custom engraving.

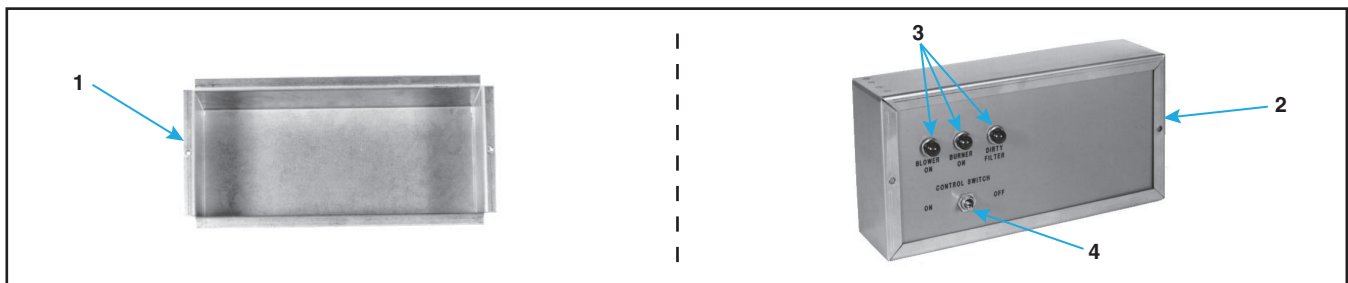


Figure 4. **Remote Console** (Refer to [Table 5](#))

REMOTE CONSOLE COMPONENTS—CONTINUED

Table 5. Remote Console Components			
Item No.	Component	Description	PN
1	Console box	10-1/16 × 6-5/8 × 2-5/8 inches	107010
		15-1/16 × 6-5/8 × 2-5/8 inches	107011
2	Mounting ring	For 10-1/16-inch box	107014
		For 15-1/16-inch box	107015
3	Indicator light	Red (Solico #3039-3-11-41610)	101889
4	Toggle switch	SPDT, 15A (Cutler Hammer #7505K6)	101901
		DPDT, 15A (Cutler Hammer #7561K6)	101900
Console Option		Console Dimensions (Inches (mm))*	
RC1, RC2, RC3, RC4, RC5, RC6, RC9		10-3/4 × 7-5/8 × 2-5/8 (273 × 194 × 67)	
RC7, RC8, RC10, RC12 (without optional control on console)			
RC7, RC8, RC10, RC12 (with optional control on console)		15-3/4 × 7-5/8 × 2-5/8 (400 × 194 × 67)	
RC11			

*Approximate with mounting ring—subtract 5/8 inch from length and height when recess-mounting (without mounting ring) console.

DISCONNECT SWITCHES



Figure 5. Disconnect Switch

Table 6. Disconnect Switches				
Amps	Volts	Fusible/Non-Fusible	US	Canada
			PN (Option)	
30	240	Fusible*	40268 (CP2)	—
		Non-fusible	40267 (CP1)	—
	600	Fusible*	50366 (CP4)	208045 (CP41)
		Non-fusible	50365 (CP3)	208053 (CP58)
60	240	Fusible*	89932 (CP17)	—
		Non-fusible	161462 (CP21)	—
	600	Fusible*	90974 (CP20)	208047 (CP43)
		Non-fusible	161464 (CP23)	208055 (CP60)

*Fuse is not included.

BLOWER MOTOR COMPONENTS

NOTES:

- Replacement motors are listed by type and horsepower. **Highlighted motors in Table 7 and Table 8 do not have internal overload protection and must be used with the motor starter and overload listed.**
- **The starter and overload are mounted on a rail (PN 111387).** When ordering a replacement starter or overload, check the manufacturer's PN on both parts. If the number is different than that listed, both components must be replaced.
- Replacement holding coils (240V) are listed in [Table 9](#).
- Variable frequency drives are listed in [Table 10](#).

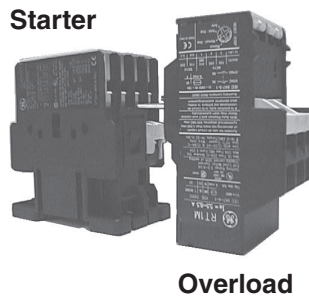


Figure 6. Replacement Motor Starter and Overload

Motor				Starter											
				Starter				Starter Overload							
HP	Service Factor	Power Factor	EFF%	Manufacturer's Model	FLA	Voltage/Phase	PN	Manufacturer's Model	PN	Min Amps	Max Amps	GE Model	PN		
1/3	1.35	—		AOS-BF2034	3.0	208/1	202091	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190		
				AOS-BF2034	3.0	240/1	202091	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
				M3007	1.9	208/3	115863	CL00A310T-L	151150	1.00	1.50	RTA1-G	151187		
				M3007	1.6	240/3	115863	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188		
				M3007	0.8	480/3	115863	CL00A310T-S	151147	0.65	1.10	RTA1-F	151186		
1/2	1.15	—		AOS-BF2054	5.1	208/1	102627	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191		
				AOS-BF2054	4.4	240/1	102627	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191		
	1.25			AOS-H880	2.5	208/3	159183	CL00A310T-L	151150	1.80	2.70	RTA1-J	151189		
				AOS-H880	3.0	240/3	159183	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
				AOS-H880	1.5	480/3	159183	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188		
3/4	1.25	—		AOS-C426V1	5.5	208/1	93548	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192		
				AOS-C426V1	5.4	240/1	93548	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191		
				AOS-312P696	2.9	208/3	36951	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190		
				AOS-312P696	2.6	240/3	36951	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
				AOS-312P696	1.3	480/3	36951	CL00A310T-S	151147	1.00	1.50	RTA1-G	151187		
1	1.25	—	79.00	AOS-C523	7.5	208/1	13685	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192		
				AOS-C523	6.5	240/1	13685	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192		
	1.15			AOS-H882	3.7	208/3	36580	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190		
				AOS-H882	3.2	240/3	36580	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
				AOS-H882	1.6	480/3	36580	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188		
				82.50	AOS-E1006	1.1	575/3	158175	CL00A310T-S	151147	1.00	1.50	RTA1-G	151187	
	1.5			1.20	86.40	77.20	AOS-C621	7.8	208/1	194202	CL00A310T-L	151150	5.50	8.50	RTA1-M
AOS-C621		7.5	240/1				194202	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192		
1.15		AOS-H884	5.6	208/3			115859	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191		
		AOS-H884	5.0	240/3			115859	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191		
		AOS-H884	2.8	480/3			115859	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
		85.30	84.00	AOS-E1007			1.6	575/3	158162	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188

BLOWER MOTOR COMPONENTS—CONTINUED

Table 7. Open-Type Motors—Continued													
Motor								Starter					
HP	Service Factor	Power Factor	EFF%	Manufacturer's Model	FLA	Voltage/Phase	PN	Starter		Starter Overload			
								Manufacturer's Model	PN	Min Amps	Max Amps	GE Model	PN
2	1.15	—		AOS-RB1204A	12.3	208/1	202581	CL01A310T-L	151155	8.00	12.00	RTA1-N	151193
				AOS-RB1204A	12.3	240/1	202581	CL01A310T-S	151152	8.00	12.00	RTA1-N	151193
		67.00	79.00	AOS-H886	7.0	208/3	159327	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
				AOS-H886	6.6	240/3	159327	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
		86.00	84.00	AOS-H886	3.5	480/3	159327	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
				AOS-E1008	2.1	575/3	158176	CL00A310T-S	151147	1.80	2.70	RTA1-J	151189
3	1.15	—		AOS-B735	13.7	208/1	111560	CL02A310T-L	151159	10.00	16.00	RTA1-P	151194
	—			AOS-B735	12.4	240/1	111560	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
	1.15			AOS-H845	9.0	208/3	159185	CL00A310T-L	151150	8.00	12.00	RTA1-N	151193
				AOS-H845	8.6	240/3	159185	CL00A310T-S	151147	8.00	12.00	RTA1-N	151193
				AOS-H845	4.3	480/3	159185	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
80.30	83.80	AOS-H954	3.6	575/3	120019	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190		
5	1.15	—		AOS-V211	28.3	208/1	111562	CL04A310M-L	151169	25.00	32.00	RTA1-V	151199
				AOS-V211	25.6	240/1	111562	CL04A310M-S	151166	25.00	32.00	RTA1-V	151199
		87.20	85.00	AOS-196033	13.4	208/3	113371	CL01A310T-L	151155	10.00	16.00	RTA1-P	151194
				AOS-196033	13.2	240/3	113371	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
		85.90	85.30	AOS-H956	5.4	575/3	120020	CL01A310T-S	151152	4.00	6.30	RTA1-L	151191

Table 8. TEFC-Type Motors													
Motor								Starter					
HP	Service Factor	Power Factor	EFF%	Manufacturer's Model	FLA	Voltage/Phase	PN	Starter		Starter Overload			
								Manufacturer's Model	PN	Min Amps	Max Amps	GE Model	PN
1/3	—			AOS-C151	2.3	208/1	159501	CL00A310T-L	151150	1.90	2.70	RTA1-J	151189
				AOS-C151	2.4	240/1	159501	CL00A310T-S	151147	1.90	2.70	RTA1-J	151189
	1.00	—		AOS-H261	1.2	208/3	105567	CL00A310T-L	151150	1.00	1.50	RTA1-G	151187
				AOS-H261	1.2	240/3	105567	CL00A310T-S	151147	1.00	1.50	RTA1-G	151187
				AOS-H261	0.6	480/3	105567	CL00A310T-S	151147	0.40	0.65	RTA1-D	151184
1/2	—			AOS-C613	3.5	208/1	159184	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
				AOS-C613	3.6	240/1	159184	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	1.00	59.50	74.80	AOS-H274	2.3	208/3	16077	CL00A310T-L	151150	1.80	2.70	RTA1-J	151189
				AOS-H274	2.0	240/3	16077	CL00A310T-S	151147	1.80	2.70	RTA1-J	151189
				AOS-H274	1.0	480/3	16077	CL00A310T-S	151147	0.65	1.10	RTA1-F	151186
1.15			AOS-H276	0.7	575/3	105568	CL00A310T-S	151147	0.65	1.10	RTA1-F	151186	
3/4	1.00	76.40	77.00	AOS-F353	5.4	208/1	115860	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
				AOS-F353	5.5	240/1	115860	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
		73.50	81.10	AOS-H580	2.0	208/3	20371	CL00A310T-L	151150	1.80	2.70	RTA1-J	151189
				AOS-H580	2.2	240/3	20371	CL00A310T-S	151147	1.80	2.70	RTA1-J	151189
		82.00			AOS-H580	1.1	480/3	20371	CL00A310T-S	151147	1.00	1.50	RTA1-G
1.15	78.3	82.00	AOS-H461	0.8	575/3	105569	CL00A310T-S	151147	0.65	1.10	RTA1-F	151186	
1	1.15	—		AOS-159105	6.0	240/1	174993	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	1.00	74.40	80.20	AOS-H524	3.3	208/1	16080	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
				AOS-H524	3.4	240/3	16080	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
				AOS-H524	1.7	480/3	16080	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188
	80.40			AOS-H525	1.4	575/3	105570	CL00A310T-S	151147	1.00	1.50	RTA1-G	151187
1.5	—			AOS-C686	9.5	208/1	94347	CL00A310T-L	151150	8.00	12.00	RTA1-N	151193
				AOS-C686	8.2	240/1	94347	CL00A310T-S	151147	8.00	12.00	RTA1-N	151193
	1.00	80.90	82.40	AOS-H535	4.3	208/3	101286	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
				AOS-H535	4.4	240/3	101286	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
				AOS-H535	2.2	480/3	101286	CL00A310T-S	151147	1.80	2.70	RTA1-J	151189
85.7	84.00	AOS-E127	1.6	575/3	105665	CL00A310T-S	151147	1.30	1.90	RTA1-H	151188		

Table 8. TEFC-Type Motors—Continued

Table 8. TEFC-Type Motors—Continued													
Motor								Starter					
HP	Service Factor	Power Factor	EFF%	Manufacturer's Model	FLA	Voltage/Phase	PN	Starter		Starter Overload			
								Manufacturer's Model	PN	Min Amps	Max Amps	GE Model	PN
2	1.15	99.00	78.00	L3516TM	8.3	240/1	205881	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
				B-M3587T	6.3	208/3	158165	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
				B-M3587T	5.8	240/3	158165	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
				B-M3587T	2.9	480/3	158165	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
				B-M3587T-5	2.2	575/3	158166	CL00A310T-S	151147	1.90	2.70	RTA1-J	151189
3	1.00	—	—	AOS-K222	15.0	240/1	111564	CL02A310T-S	151157	10.00	16.00	RTA1-P	151194
				B - M3559T	7.9	208/3	159330	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
				B - M3559T	7.2	240/3	159330	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
				B - M3559T	3.6	480/3	159330	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
				B-M3660T-5	3.0	575/3	158168	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
5	1.00	—	—	AOS-K223	20.2	240/1	111567	CL04A310M-S	151166	21.00	26.00	RTA1-U	151198
				B-3663T	12.8	208/3	155048	CL01A310T-L	151155	14.50	18.00	RTA1-S	151196
				B-3663T	11.8	240/3	155048	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
				B-3663T	5.9	480/3	155048	CL01A310T-S	151152	4.00	6.30	RTA1-L	151191
				B-3663T-5	4.8	575/3	158170	CL01A310T-S	151152	4.00	6.30	RTA1-L	151191

Table 9. Replacement Coils

For Use with Starter Contactor GE Model Numbers Beginning with:	Replacement Coil PN	Voltage	GE Model
CL00, CL01, CL02, CL25	151280	24	LB1A-C
	151281	120	LB1A-J
	151282	208	LB1A-L
	151283	230	LB1A-S
	151284	460	LB1A-U
CL04, CL45	151285	575	LB1A-Y
	151286	24	LB3A-C
	151287	120	LB3A-J
	151288	208	LB3A-L
	151289	230	LB3A-S
	151290	460	LB3A-U
CL06, CL07, CL08, CL09	151291	575	LB3A-Y
	151292	208	LB4A-L
	151293	230	LB4A-S
	151294	460	LB4A-U

VARIABLE FREQUENCY DRIVES

Table 10. Variable Frequency Drives

Motor			Variable Frequency Drive					Matching Line Reactor	
Type	HP	Option	Manufacturer's (ABB) Model	Voltage Option	Voltage/Phase/Hz	Frame Size	PN	Manufacturer's Model	PN
Open	1/2	AL4	ACS150-01U-02A4-2	AK2	208/1/60	R0	221564	KDRA26L	221595
				AK3	230/1/60				
			ACS150-03U-02A4-2	AK5	208/3/60	R0	221569	KDRA53L	221598
	AK6	230/3/60							
	ACS150-03U-01A2-4	AK7	460/3/60	R0	221575	KDRA6L	221590		
	3/4	AL5	ACS150-03U-03A5-2	AK5	208/3/60	R0	221570	KDRA53L	221598
				AK6	230/3/60				
	ACS150-03U-01A9-4	AK7	460/3/60	R0	221576	KDRA7L	221591		
	1	AL6	ACS150-01U-04A7-2	AK2	208/1/60	R1	221565	KDRA27L	221596
				AK3	230/1/60				
			ACS150-03U-04A7-2	AK5	208/3/60	R1	221571	KDRA25L	221594
	AK6	230/3/60							
	ACS150-03U-02A4-4	AK7	460/3/60	R0	221577	KDRA8L	221592		
	1.5	AL7	ACS150-01U-06A7-2	AK2	208/1/60	R1	221566	KDRA28L	221597
				AK3	230/1/60				
			ACS150-03U-06A7-2	AK5	208/3/60	R1	221572	KDRA26L	221595
	AK6	230/3/60							
	ACS150-03U-03A3-4	AK7	460/3/60	R1	221578	KDRA9L	221593		
	2	AL8	ACS150-01U-07A5-2	AK2	208/1/60	R2	221567	KDRA28L	221597
				AK3	230/1/60				
			ACS150-03U-07A5-2	AK5	208/3/60	R1	221573	KDRA27L	221596
				AK6	230/3/60				
	ACS150-03U-04A1-4	AK7	460/3/60	R1	221579	KDRA1L	221585		
	ACS550-U1-02A7-6	AK8	575/3/60	R2	221855	—			
3	AL9	ACS150-01U-09A8-2	AK2	208/1/60	R2	221568	KDRB22L	221599	
			AK3	230/1/60					
		ACS150-03U-09A8-2	AK5	208/3/60	R2	221574	KDRA28L	221597	
			AK6	230/3/60					
ACS150-03U-05A6-4	AK7	460/3/60	R1	221580	KDRA2L	221586			
ACS550-U1-03A9-6	AK8	575/3/60	R2	221856	—				
5	AL10	ACS350-03U-17A6-2+J404	AK5	208/3/60	R2	221611	KDRB22L	221599	
			AK6	230/3/60					
		ACS150-03U-08A8-4	AK7	460/3/60	R1	221581	KDRA3L	221587	
ACS550-U1-06A1-6	AK8	575/3/60	R2	221857	—				
TEFC	1/2	AL21	—	AK2	208/1/60	—	221564	—	
				AK3	230/1/60		221564		
				AK5	208/3/60		221569		
				AK6	230/3/60		221569		
				AK7	460/3/60		221575		
	3/4	AL22	—	AK5	208/3/60	—	221570	—	
				AK6	230/3/60		221570		
				AK7	460/3/60		221576		
	1	AL23	—	AK2	208/1/60	—	221565	—	
				AK3	230/1/60		221565		
				AK5	208/3/60		221571		
				AK6	230/3/60		221571		
				AK7	460/3/60		221577		
	1.5	AL24	—	AK2	208/1/60	—	221566	—	
				AK3	230/1/60		221566		
				AK5	208/3/60		221572		
				AK6	230/3/60		221572		
				AK7	460/3/60		221578		
	2	AL25	—	AK2	208/1/60	—	221567	—	
				AK3	230/1/60		221567		
				AK5	208/3/60		221573		
				AK6	230/3/60		221573		
				AK7	460/3/60		221579		
				AK8	575/3/60		221855		

Table 10. Variable Frequency Drives—Continued

Motor		Variable Frequency Drive					Matching Line Reactor		
Type	HP	Option	Manufacturer's (ABB) Model	Voltage Option	Voltage/Phase/Hz	Frame Size	PN	Manufacturer's Model	PN
TEFC	3	AL26	—	AK2	208/1/60	—	221568	—	
				AK3	230/1/60		221568		
				AK5	208/3/60		221574		
				AK6	230/3/60		221574		
				AK7	460/3/60		221580		
				AK8	575/3/60		221856		
	5	AL27	—	AK5	208/3/60	—	221611	—	
				AK6	230/3/60		221611		
AK7				460/3/60	221581				
AK8				575/3/60	221857				
EE*	1	AL36	—	AK5	208/3/60	—	221571	—	
				AK6	230/3/60		221571		
				AK7	460/3/60		221577		
	1.5	AL37	—	AK5	208/3/60	—	221572	—	
				AK6	230/3/60		221572		
				AK7	460/3/60		221578		
	2	AL38	—	AK5	208/3/60	—	221573	—	
				AK6	230/3/60		221573		
				AK7	460/3/60		221579		
				AK8	575/3/60		221855		
	3	AL39	—	AK5	208/3/60	—	221574	—	
				AK6	230/3/60		221574		
				AK7	460/3/60		221580		
				AK8	575/3/60		221856		
	5	AL40	—	AK5	208/3/60	—	221611	—	
				AK6	230/3/60		221611		
AK7				460/3/60	221581				
AK8				575/3/60	221857				

*EE motors are no longer available.

DRIVE COMPONENTS (PULLEYS AND BELTS)

NOTES:

- Drive components are listed by motor (AL) option. The drive components include the belt, motor pulley, blower pulley, and bushings, if required.
- [Table 11](#) lists the RPM range of the drive option. Drive options are listed by AM No. in [Table 12](#) and [Table 13](#).
- Check belt tension—proper belt tension is important to the long life of the belt and motor—a loose belt causes wear and slippage and too much tension causes excessive motor and blower bearing wear. If belt tension adjustment is required, tighten the locknut on the motor base adjusting screw until the belt can be depressed 1/2- to 3/4-inch. Ensure that the belt is aligned in the pulleys.

Table 11. Drive Option (AM) RPM Range

Option	Range (rpm)	Option	Range (rpm)	Option	Range (rpm)
AM1	401–450	AM11	901–950	AM21	1401–1450
AM2	451–500	AM12	951–1000	AM22	1451–1500
AM3	501–550	AM13	1001–1050	AM23	1501–1550
AM4	551–600	AM14	1051–1100	AM24	1551–1600
AM5	601–650	AM15	1101–1150	AM25	1601–1650
AM6	651–700	AM16	1151–1200	AM26	1651–1700
AM7	701–750	AM17	1201–1250	AM27	1701–1750
AM8	751–800	AM18	1251–1300	AM28	1751–1800
AM9	801–850	AM19	1301–1350	AM29	1801–1850
AM10	851–900	AM20	1351–1400	AM30	1851–1900

DRIVE COMPONENTS (PULLEYS AND BELTS)—CONTINUED

Table 12. Drives, Pulleys, and Belts for Open-Type Motors

Unit Size	Motor			Drive Option (AM)	Motor Pulley			Blower Pulley*		Belt	
	HP	Motor Option (AL)	Voltage Option (AK)		PN	Model	Bore Size (Inches)	PN	Model	PN	Model
150	1/3	3	2, 3, 5, 6, 7	1, 2, 3, 4	4074	1VL34	1/2	19111	AK84	50472	A45
				5, 6	4074	1VL34	1/2	18797	AK64	101412	A42
	1/2	4	2, 3, 5, 6, 7	5, 6, 7, 8	13580	1VL34	5/8	18797	AK64	101412	A42
	3/4	5	2, 3, 5, 6, 7	7, 8, 9, 10, 11	13580	1VL34	5/8	135202	AK54	16019	A40
	1	6	2, 3, 5, 6, 7	10, 11, 12, 13	13580	1VL34	5/8	105481	AK46	105493	A39
	1	6	8	10, 11, 12, 13	110125	1VP34	7/8	105481	AK46	105493	A39
	1.5	7	2, 3, 5, 6, 7	11, 12, 13, 14, 15, 16	7962	1VL40	5/8	135202	AK54	101412	A42
	1.5	7	8	11, 12, 13, 14, 15, 16	106748	1VL40	7/8	135202	AK54	101412	A42
2	8	2, 3, 5, 6, 7, 8	17	106748	1VL40	7/8	135200	AK51	50500	A41	
200	1/3	3	2, 3, 5, 6, 7	3	4074	1VL34	1/2	19111	AK84	50472	A45
	1/2	4	2, 3, 5, 6, 7	5, 6, 7	13580	1VL34	5/8	105483	AK69	50470	A43
	3/4	5	2, 3, 5, 6, 7	6, 7, 8, 9, 10	13580	1VL34	5/8	105482	AK56	50500	A41
	1	6	2, 3, 5, 6, 7	7, 8, 9, 10, 11	13580	1VL34	5/8	105482	AK56	50500	A41
	1	6	8	7, 8, 9, 10, 11	110125	1VP34	7/8	105482	AK56	50500	A41
	1.5	7	2, 3, 5, 6, 7	9, 10, 11, 12, 13, 14	7962	1VL40	5/8	115716	AK59	50470	A43
	1.5	7	8	9, 10, 11, 12, 13, 14	106748	1VL40	7/8	115716	AK59	50470	A43
	2	8	2, 3, 5, 6, 7, 8	13, 14, 15, 16	106748	1VL40	7/8	135202	AK54	101412	A42
250	1/3	3	2, 3, 5, 6, 7	3	4074	1VL34	1/2	19111	AK84	50473	A46
	1/2	4	2, 3, 5, 6, 7	4, 5, 6, 7	13580	1VL34	5/8	135279	AK66	101412	A42
	3/4	5	2, 3, 5, 6, 7	6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	101412	A42
	1	6	2, 3, 5, 6, 7	7, 8, 9, 10, 11	13580	1VL34	5/8	135202	AK54	50500	A41
	1	6	8	7, 8, 9, 10, 11	110125	1VP34	7/8	135202	AK54	50500	A41
	1.5	7	2, 3, 5, 6, 7	9, 10, 11, 12	7962	1VL40	5/8	18797	AK64	52966	A44
				13, 14, 15	7962	1VL40	5/8	135202	AK54	101412	A42
	1.5	7	8	9, 10, 11, 12	106748	1VL40	7/8	18797	AK64	52966	A44
				13, 14, 15	106748	1VL40	7/8	135202	AK54	101412	A42
	2	8	2, 3, 5, 6, 7, 8	13, 14, 15, 16, 17, 18	106748	1VL40	7/8	111689	AK49	50500	A41
	3	9	2, 3	17, 18, 19, 20, 21, 22	7962	1VL40	5/8	19111	AK84	50474	A47
3	9	5, 6, 7, 8	17, 18, 19, 20, 21, 22	106748	1VL40	7/8	19111	AK84	50474	A47	
300	1/3	3	2, 3, 5, 6, 7	3	4074	1VL34	1/2	111609	AK99	50475	A49
	1/2	4	2, 3, 5, 6, 7	4, 5	13580	1VL34	5/8	19111	AK84	50473	A46
	3/4	5	2, 3, 5, 6, 7	5, 6, 7, 8	13580	1VL34	5/8	135279	AK66	50470	A43
	1	6	2, 3, 5, 6, 7	7, 8, 9, 10, 11, 12	13580	1VL34	5/8	135202	AK54	16019	A40
	1	6	8	7, 8, 9, 10, 11, 12	110125	1VP34	7/8	135202	AK54	16019	A40
	1.5	7	2, 3, 5, 6, 7	9, 10, 11, 12, 13, 14	13580	1VL34	5/8	111689	AK49	16019	A40
	1.5	7	8	9, 10, 11, 12, 13, 14	110125	1VP34	7/8	111689	AK49	16019	A40
				10, 11, 12, 13	106748	1VL40	7/8	115716	AK59	50470	A43
	2	8	2, 3, 5, 6, 7, 8	14, 15, 16	106758	1VL44	7/8	105482	AK56	101412	A42
				15, 16, 17, 18, 19, 20	105476	1VL44	5/8	111609	AK99	88558	A50
	3	9	5, 6, 7, 8	15, 16, 17, 18, 19, 20	106758	1VL44	7/8	111609	AK99	88558	A50
	5	10	2, 3	20, 21, 22, 23	111681	1VP50	1-1/8	111609	AK99	50475	A49
	5	10	5, 6, 7, 8	20, 21, 22, 23	37451	1VM50	7/8	111609	AK99	50475	A49

*Bore size = 1 inch.

Table 12. Drives, Pulleys, and Belts for Open-Type Motors—Continued

Unit Size	Motor			Drive Option (AM)	Motor Pulley			Blower Pulley*		Belt	
	HP	Motor Option (AL)	Voltage Option (AK)		PN	Model	Bore Size (Inches)	PN	Model	PN	Model
350	3/4	5	2, 3, 5, 6, 7	2, 3, 4	13580	1VL34	5/8	19111	AK84	50476	A58
	1	6	2, 3, 5, 6, 7	4, 5, 6, 7	13580	1VL34	5/8	18797	AK64	16131	A54
	1	6	8	4, 5, 6, 7	110125	1VP34	7/8	18797	AK64	16131	A54
	1.5	7	2, 3, 5, 6, 7	6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	16130	A53
	1.5	7	8	6, 7, 8, 9, 10	110125	1VP34	7/8	115716	AK59	16130	A53
	2	8	2, 3, 5, 6, 7, 8	7, 8, 9	106758	1VL44	7/8	19111	AK84	92402	A59
				10, 11, 12	106758	1VL44	7/8	135279	AK66	16133	A56
	3	9	2, 3	8, 9, 10	7962	1VL40	5/8	50520	AK134	92408	A68
				11, 12, 13, 14	7962	1VL40	5/8	16153	AK104	16137	A62
	3	9	5, 6, 7, 8	8, 9, 10	106748	1VL40	7/8	50520	AK134	92408	A68
				11, 12, 13, 14	106748	1VL40	7/8	16153	AK104	16137	A62
	5	10	2, 3	13, 14, 15, 16	111681	1VP50	1-1/8	50520	AK134	16558	A69
				17, 18, 19	110151	1VP44	1-1/8	111609	AK99	16137	A62
	5	10	5, 6, 7, 8	13, 14, 15, 16	37451	1VM50	7/8	50520	AK134	16558	A69
17, 18, 19				106758	1VL44	7/8	111609	AK99	16137	A62	
400	3/4	5	2, 3, 5, 6, 7	3	13580	1VL34	5/8	19111	AK84	50476	A58
	1	6	2, 3, 5, 6, 7	4, 5, 6, 7	13580	1VL34	5/8	18797	AK64	16131	A54
	1	6	8	4, 5, 6, 7	110125	1VP34	7/8	18797	AK64	16131	A54
	1.5	7	2, 3, 5, 6, 7	6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	16130	A53
	1.5	7	8	6, 7, 8, 9, 10	110125	1VP34	7/8	115716	AK59	16130	A53
	2	8	2, 3, 5, 6, 7, 8	7, 8, 9	106758	1VL44	7/8	19111	AK84	92402	A59
				10, 11	106758	1VL44	7/8	135279	AK66	16133	A56
	3	9	2, 3	8, 9, 10	7962	1VL40	5/8	50520	AK134	92408	A68
				11, 12, 13, 14, 15	7962	1VL40	5/8	16153	AK104	16137	A62
	3	9	5, 6, 7, 8	8, 9, 10	106748	1VL40	7/8	50520	AK134	92408	A68
				11, 12, 13, 14, 15	106748	1VL40	7/8	16153	AK104	16137	A62
	5	10	2, 3	12, 14, 15, 16	111681	1VP50	1-1/8	50520	AK134	16558	A69
				17, 18, 19	110151	1VP44	1-1/8	111609	AK99	16137	A62
	5	10	5, 6, 7, 8	12, 14, 15, 16	37451	1VM50	7/8	50520	AK134	16558	A69
17, 18, 19				106758	1VL44	7/8	111609	AK99	16137	A62	

*Bore size = 1 inch.

Table 13. Drives, Pulleys, and Belts for TEFC-Type Motors

Unit Size	Motor			Drive Option (AM)	Motor Pulley			Blower Pulley*		Belt	
	HP	Motor Option (AL)	Voltage Option (AK)		PN	Model	Bore Size (Inches)	PN	Model	PN	Model
150	1/3	20	2,3,5,6,7	1, 2, 3, 4	4074	1VL34	1/2	19111	AK84	50472	A45
				5, 6	4074	1VL34	1/2	18797	AK64	101412	A42
	1/2	21	2,3,5,6,7,8	5, 6, 7, 8	13580	1VL34	5/8	18797	AK64	101412	A42
	3/4	22	2,3,5,6,7,8	7, 8, 9, 10, 11	13580	1VL34	5/8	135202	AK54	16019	A40
	1	23	3,5,6,7,8	10, 11, 12, 13	13580	1VL34	5/8	105481	AK46	105493	A39
	1.5	24	2,3,5,6,7	11, 12, 13, 14, 15, 16	7962	1VL40	5/8	135202	AK54	101412	A42
	1.5	24	8	11, 12, 13, 14, 15, 16	106748	1VL40	7/8	135202	AK54	101412	A42
200	2	25	3,5,6,7,8	17	106748	1VL40	7/8	135200	AK51	50500	A41
	1/3	20	2,3,5,6,7	3	4074	1VL34	1/2	19111	AK84	50472	A45
	1/2	21	2,3,5,6,7,8	5, 6, 7	13580	1VL34	5/8	105483	AK69	50470	A43
	3/4	22	2,3,5,6,7,8	6, 7, 8, 9, 10	13580	1VL34	5/8	105482	AK56	50500	A41
	1	23	3,5,6,7,8	7, 8, 9, 10, 11	13580	1VL34	5/8	105482	AK56	50500	A41
	1.5	24	2,3,5,6,7	9, 10, 11, 12, 13, 14	7962	1VL40	5/8	115716	AK59	50470	A43
	1.5	24	8	9, 10, 11, 12, 13, 14	106748	1VL40	7/8	115716	AK59	50470	A43
2	25	3,5,6,7,8	13, 14, 15, 16	106748	1VL40	7/8	135202	AK54	101412	A42	

*Bore size = 1 inch.

DRIVE COMPONENTS (PULLEYS AND BELTS)—CONTINUED

Table 13. Drives, Pulleys, and Belts for TEFC-Type Motors—Continued

Unit Size	Motor			Drive Option (AM)	Motor Pulley			Blower Pulley*		Belt	
	HP	Motor Option (AL)	Voltage Option (AK)		PN	Model	Bore Size (Inches)	PN	Model	PN	Model
250	1/3	20	2,3,5,6,7	3	4074	1VL34	1/2	19111	AK84	50473	A46
	1/2	21	2,3,5,6,7,8	4, 5, 6, 7	13580	1VL34	5/8	135279	AK66	101412	A42
	3/4	22	2,3,5,6,7,8	6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	101412	A42
	1	23	3,5,6,7,8	7, 8, 9, 10, 11	13580	1VL34	5/8	135202	AK54	50500	A41
	1.5	24	2,3,5,6,7	9, 10, 11, 12	7962	1VL40	5/8	18797	AK64	52966	A44
				13, 14, 15	7962	1VL40	5/8	135202	AK54	101412	A42
	1.5	24	8	9, 10, 11, 12	106748	1VL40	7/8	18797	AK64	52966	A44
				13, 14, 15	106748	1VL40	7/8	135202	AK54	101412	A42
	2	25	3,5,6,7,8	13, 14, 15, 16, 17, 18	106748	1VL40	7/8	111689	AK49	50500	A41
3	26	3,8	17, 18, 19, 20, 21, 22	110151	1VP44	1-1/8	111689	AK49	50500	A41	
3	26	5,6,7	17, 18, 19, 20, 21, 22	106748	1VL40	7/8	19111	AK84	50474	A47	
300	1/3	20	2,3,5,6,7	3	4074	1VL34	1/2	111609	AK99	50475	A49
	1/2	21	2,3,5,6,7,8	4, 5	13580	1VL34	5/8	19111	AK84	50473	A46
	3/4	22	2,3,5,6,7,8	5, 6, 7, 8	13580	1VL34	5/8	135279	AK66	50470	A43
	1	23	3,5,6,7,8	7, 8, 9, 10, 11, 12	13580	1VL34	5/8	135202	AK54	16019	A40
	1.5	24	2,3,5,6,7	9, 10, 11, 12, 13, 14	13580	1VL34	5/8	111689	AK49	16019	A40
	1.5	24	8	9, 10, 11, 12, 13, 14	110125	1VP34	7/8	111689	AK49	16019	A40
				10, 11, 12, 13	106748	1VL40	7/8	115716	AK59	50470	A43
	2	25	3,5,6,7,8	14, 15, 16	106758	1VL44	7/8	105482	AK56	101412	A42
	3	26	3,8	15, 16, 17, 18, 19, 20	110151	1VP44	1-1/8	111609	AK99	88558	A50
3	26	5,6,7	15, 16, 17, 18, 19, 20	106748	1VL44	7/8	111609	AK99	88558	A50	
5	27	3,5,6,7,8	20, 21, 22, 23	111681	1VP50	1-1/8	111609	AK99	50475	A49	
350	3/4	22	2,3,5,6,7,8	2, 3, 4	13580	1VL34	5/8	19111	AK84	50476	A58
	1	23	2,3,5,6,7,8	4, 5, 6, 7	13580	1VL34	5/8	18797	AK64	16131	A54
	1.5	24	2,3,5,6,7	6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	16130	A53
	1.5	24	8	6, 7, 8, 9, 10	110125	1VP34	7/8	115716	AK59	16130	A53
				7, 8, 9	106758	1VL44	7/8	19111	AK84	92402	A59
	2	25	3,5,6,7,8	10, 11, 12	106758	1VL44	7/8	135279	AK66	16133	A56
				8, 9, 10	110151	1VP44	1-1/8	113372	AK144	114257	A70
	3	26	3,8	11, 12, 13, 14	111681	1VP50	1-1/8	113372	AK144	124347	A71
				8, 9, 10	106748	1VL40	7/8	50520	AK134	92408	A68
3	26	5,6,7	11, 12, 13, 14	106748	1VL40	7/8	16153	AK104	16137	A62	
			13, 14, 15, 16	111681	1VP50	1-1/8	50520	AK134	16558	A69	
5	27	3,5,6,7,8	17, 18, 19	110151	1VP44	1-1/8	111609	AK99	16137	A62	
			400	3/4	22	2,3,5,6,7,8	3	13580	1VL34	5/8	19111
1	23	2,3,5,6,7,8		4, 5, 6, 7	13580	1VL34	5/8	18797	AK64	16131	A54
1.5	24	2,3,5,6,7		6, 7, 8, 9, 10	13580	1VL34	5/8	115716	AK59	16130	A53
1.5	24	8		6, 7, 8, 9, 10	110125	1VL34	7/8	115716	AK59	16130	A53
				7, 8, 9	106758	1VL44	7/8	19111	AK84	92402	A59
2	25	3,5,6,7,8		10, 11	106758	1VL44	7/8	135279	AK66	16133	A56
				8, 9, 10, 11	110151	1VP44	1-1/8	113272	AK144	114257	A70
3	26	3,8		12, 13, 14, 15	111681	1VP50	1-1/8	50520	AK134	16558	A69
				8, 9, 10	106748	1VL40	7/8	50520	AK134	92408	A68
3	26	5,6,7	11, 12, 13, 14, 15	106748	1VL40	7/8	16153	AK104	16137	A62	
			12, 14, 15, 16	111681	1VP50	1-1/8	50520	AK134	16558	A69	
5	27	3,5,6,7,8	17, 18, 19	110151	1VP44	1-1/8	111609	AK99	16137	A62	

*Bore size = 1 inch.

BLOWER COMPONENTS

NOTES:

- The assembly shown in [Figure 7](#) is the strut base, dual blowers, and motor mounting plate for 2- to 5-HP belt-driven motors on unit sizes 250, 300, 350, and 400,
- The assembly shown in [Figure 8](#) is the motor-mounting plate assembly used on a unit with a 1/3 - 1.5-HP belt-driven motor.

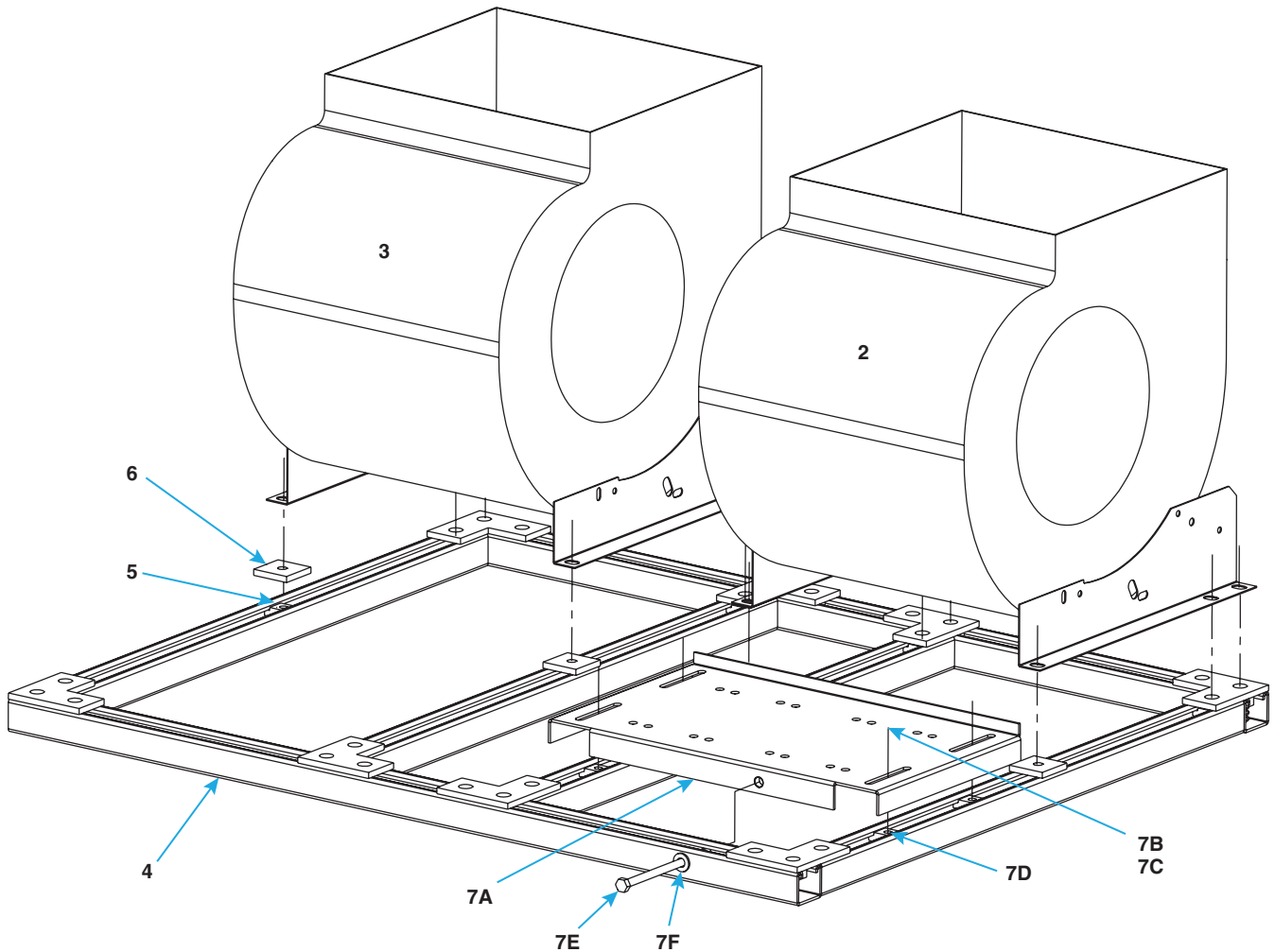


Figure 7. Typical Blower Components (Refer to [Table 14](#))

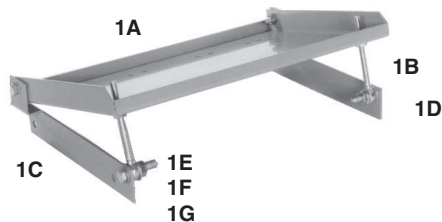


Figure 8. Motor Mounting Plate Assembly (Refer to [Table 15](#))

BLOWER COMPONENTS—CONTINUED

Table 14. Blower Components for Units with 2- to 5-HP Belt-Drive Blower Motors								
Item No.	Component	Description	Unit Size					
			150	200	250	300	350	400
			2-HP Motors		2- to 5-HP Motors			
			PN (Quantity)*					
1	Blower	Lau #A12-9	100657	—	—	—	—	
		Lau #A12-2	—	1360	—	—	—	
Right (Lau #2A10-10A RH)		—	—	24230	—	—		
Right (Lau #2A12-9A RH)		—	—	—	166784	—		
Left (Lau #2A10-10A LH)		—	—	24229	—	—		
Left (Lau #2A12-9A LH)		—	—	—	—	166785		
4	Strut assembly	Base	—	—	195003	195004	195004	
5	Nut	Spring	—	—	177161 (4)	177161 (8)	177161 (8)	
6	Fitting	Flat plate	—	—	178180 (4)	178180 (8)	178180 (8)	
7	Bearing	Fafnir #RCSM-1	10437 (2)	—	10437 (2)	10437 (2)	10437 (2)	
7A	Mounting plate	Motor, assembly	166127**	—	195070	195071	195071	
7B	Bolt	Hex head, 5/16-18 × 1/1/4	—	—	178188 (4)	178188 (4)	178188 (4)	
7C	Washer	Flat	—	—	22761 (4)	22761 (4)	22761 (4)	
7D	Nut	Spring, 5/16-inch	—	—	177161 (4)	177161 (4)	177161 (4)	
7E	Bolt	Adjustment, 3/8-18 × 6	—	—	49809	49809	49809	
7F	Washer	Flat	—	—	6593	6593	6593	
8	Mounting assembly	Blower	163174	163175	195080	262466	195081	
8A	Mount	Blower	160136	163425	166320	—	160176	
8B	Support angle	Blower mount	160179 (2)		—	—	—	
8C	Brace	Blower mount	160628	160629	160629	—	160629	
8D	Plug	7/8-inch (Heyco #DP8753703)	16452 (2)		16452 (2)	—	16452 (2)	
8E	Baffle	Air	163426 (2)	163426 (2)	163430 (2)	164699 (2)	163426 (2)	
8F	Connector	Blower discharge	—	—	194995 (2)	—	194996 (2)	
8G	Gasket	Foam, 1-1/8 × 37	—	—	195085 (2)	—	—	
		Foam, 1-1/8 × 40	—	—	—	—	195086 (2)	
9	Threaded insert	5/16-8	124260 (6)		124260 (8)			
10	Mounting angle	Blower, left	166149	166149	195067 (2)	—	—	
11		Blower, right	166150	166150	195068 (2)	—	—	
12	Washer	Flat, 5/16-inch	—	—	22761 (4)	22761 (8)	22761 (8)	
13	Bolt	Hex head, 5/16-18 × 1-1/4	—	—	178188 (4)	178188 (8)	178188 (8)	
14	Blower shaft	1 × 22	11303		—	—	—	
		1 × 44-5/8	—	—	10121	10121	10121	
14A	Key	Blower shaft	—	—	16099	16099	16099	

*Quantity is one (1) unless otherwise indicated.

**Refer to item 1, [Table 15](#).

Table 15. Blower Components for Units with 1/3- to 1.5-HP Belt-Drive Blower Motors

Item No.	Component	Description	Unit Size					
			150	200	250	300	350	400
			1/3- to 1.5-HP Motors			3/4- to 1.5-HP Motors		
			PN (Quantity)*					
1	Mounting plate	Motor, assembly	166127		166127		166127	
1A	Mounting plate	Motor	12578		12578		12578	
1B	Bolt		12489 (2)		12489 (2)		12489 (2)	
1C	Support	Left	87015		87015		87015	
1D		Right	87016		87016		87016	
1E	Screws	1-1/2-inch	16248 (4)		16248 (4)		16248 (4)	
1F	Nut		6554 (8)		6554 (8)		6554 (8)	
1G	Washer		1087 (12)		1087 (12)		1087 (12)	
2	Mounting assembly	Blower	163174	163175	166744	166745	164517	
2A	Mount	Blower	160136	163425	166320		160176	
2B	Support angle	Blower mount	160179 (2)		160179 (4)		170200 (4)	
2C	Brace	Blower mount	160628	160629	166319 (2)		160628 (2)	
2D	Plug	7/8-inch (Heyco #DP8753703)	16452 (2)		16452 (2)		16452 (2)	
2E	Baffle	Air	163426 (2)		163430 (2)		164699	
3	Assembly	Blower	169917	169918	166128		166129	
3A	Blower	Lau #A12-9AC	100657	—	—		—	
		Lau #A12-12AC	—	1360	—		—	
		Right (Lau #2A10-10A)	—	—	24230		—	
		Right (Lau #2A12-9A)	—	—	—		166784	
		Left (Lau #2A10-10A)	—	—	24229		—	
		Left (Lau #2A12-9A)	—	—	—		166785	
3B	Threaded insert	5/16-8	124260 (6)		124260 (12)		124260 (12)	
3C	Mounting angle	Blower, left	166149	166149	166149 (2)		166149 (2)	
3D		Blower, right	166150	166150	166150 (2)		166150 (2)	
4	Blower shaft	1 × 22	11303	—	11303	—	11303	
		1 × 44-5/8	—	10121	—	10121	—	
5	Bearing	Fafnir #RCSM-1	10437 (2)		10437 (2)		10437 (2)	

*Quantity is one (1) unless otherwise indicated.

Table 16. Blower Components for Units with Direct-Drive Blower Motors

Component	Description	Unit Size					
		150	200	250	300	350	400
		1/3- to 1.5-HP Motors			3/4- to 1.5-HP Motors		
		PN (Quantity)*					
Mounting assembly	Blower	163174	163175	163176	163177	164517	
Mount	Blower	160136	163425	160175		160176	
Support angle	Blower mount	160179 (2)		160179 (4)		170200 (4)	
Brace	Blower mount	160628	160629	160628 (2)		160628 (2)	
Plug	7/8-inch (Heyco #DP8753703)	16452 (2)		16452 (2)		16452 (2)	
Baffle	Air	163426 (2)		163430 (2)		164699	
Assembly	Blower	163428	163429	163428 (2)		163428 (2)	
Blower	9-inch (Lau #DD12-9-A)	164323	—	164323 (2)		164323 (2)	
	12-inch (Lau #DD12-12-A)	—	164324	—		—	
Mounting angle	Blower, left	166149		166149	166149 (2)		166149 (2)
	Blower, right	166150		166150	166150 (2)		166150 (2)
Threaded insert	5/16-8	124260 (4)		124260 (8)		124260 (8)	
Motor	Blower	164329		164329 (2)		164329 (2)	
Band	Motor (Triangle #TR5868)	51221		51221 (2)		51221 (2)	
Support arm	Motor (Triangle #TR8053B)	164325 (3)		164325 (6)		164325 (6)	
Restrictor	Inlet	165178	165179	165178 (2)	165180 (2)	165181 (2)	165179 (2)
Mounting bracket	Inlet restrictor	165182 (3)		165182 (6)		165182 (6)	

*Quantity is one (1) unless otherwise indicated.

CABINET COMPONENTS

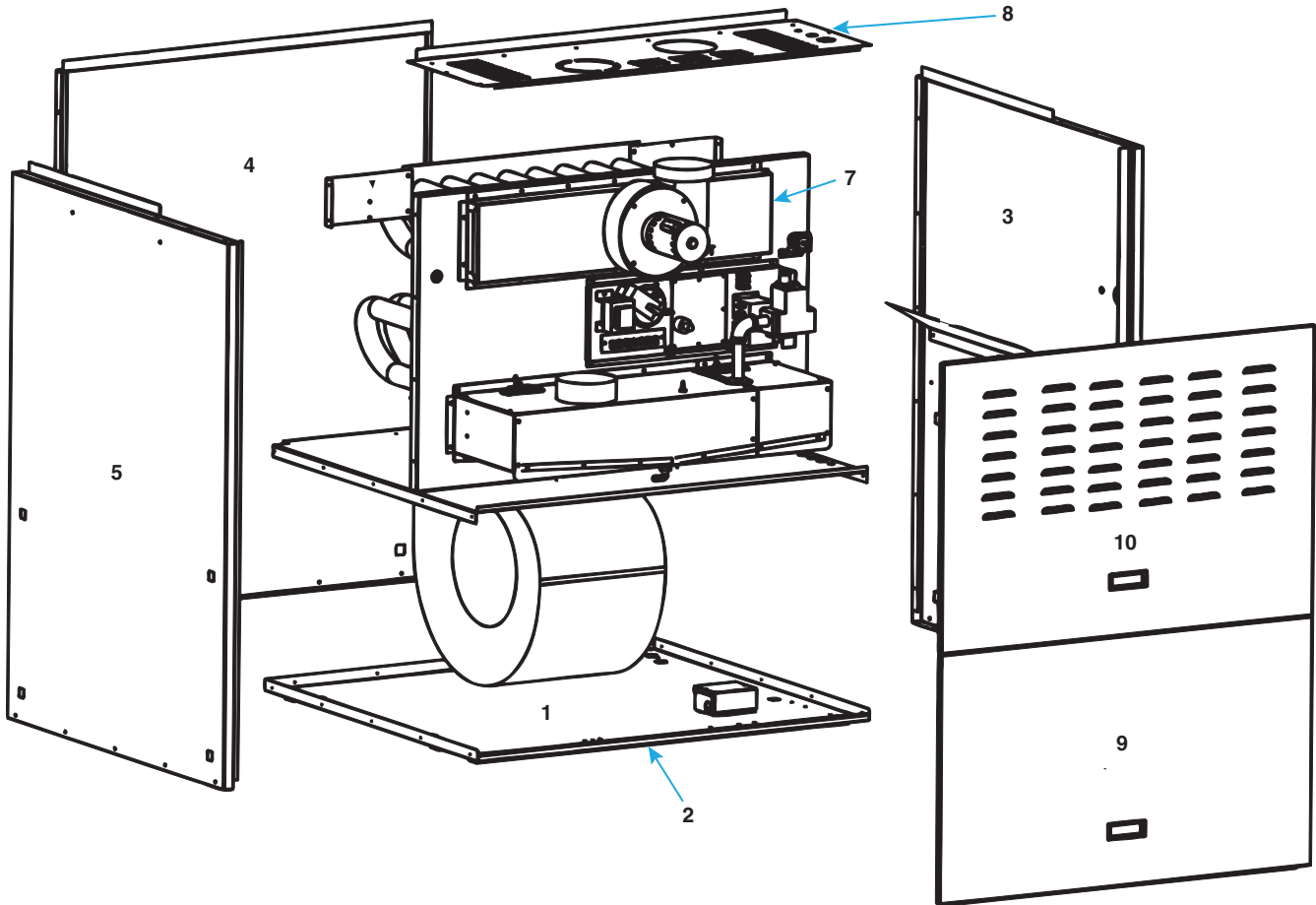


Figure 9. Cabinet Components (Refer to Table 17)

Table 17. Cabinet Components

Item No.	Component	Description	Unit Size						
			150	200	250	300	350	400	
			PN (Quantity)*						
1	Panel	Bottom	160133		160134		—		
		Bottom, front	—		—		170198	—	
		Bottom, rear, units without inlet base	—		—		170199		
		Bottom, rear, units with inlet base	—		—		176361		
1A	Insulation	Bottom panel		177624		177627		177628	
2	Support leg	Units with direct-drive motor	161155 (2)		161156 (2)		161156 (2)		
		Units with 1/3- to 1.5-HP belt-drive motor	161155		161156		161156		
		Front, units with 1/3- to 1.5-HP belt-drive motor	195177	195179	195247		195247		
		Rear, units with 1/3- to 1.5-HP belt-drive motor	195178	195180	195248		195248		
		Units with 2- to 5-HP belt-drive motor	—		161156 (3)		161156 (3)		
3	Side panel assembly	Left		163183	163184	163451	163452	163453	164516
3A	Panel	Side, left		160125		160125		160126	
3B	Plug	5/8-inch (Heyco #DP625)		111096		111096		111096	
3C	Deflector	Air		164701	164700	164701	165017	164701	164700
3D	Insulation	Left side panel	177622		177622		177626		
			160896		160896		163173		
			163170		163171		163172		
4	Panel assembly	Rear, includes insulation		163170		163171		163172	
5	Side panel assembly	Right		175274	175275	175276	175277	175278	175279
5A	Panel	Side, right		160123		160123		160124	
5B	Deflector	Air		164701	164700	164701	165017	164701	164700
5C	Insulation	Right side panel	177622		177622		177626		
			160896		160896		163173		
			29871		29871		29871		
5D									
5E	Plug	5/8-inch (Heyco #DP625)		111096		111096		111096	
6	Flue wrapper	Assembly, 409SS, includes condensate drain connection, option AD4		258960	258961	258962	258963	258964	258965
6A	Gasket	Top/bottom		258994 (2)		258994 (2)		258994 (2)	
6B		Side		258995 (2)		258996 (2)		258997 (2)	
6C	Hose barb	1/4 x 1/4 NPT male, brass		258998		258998		258998	
7	Flue wrapper	Assembly, aluminized		160186	160187	160188	160189	160190	160191
7A	Gasket	Top/bottom		147651 (2)		147651 (2)		147651 (2)	
7B		Side		161160 (2)		161161 (2)		161162 (2)	
8	Panel	Top		160130		160131	160194	160132	
8A	Retainer	Top panel		174866		174866		174866	
9	Access door	Bottom, assembly, includes handle		165046		165047		165047	
10		Top, assembly, includes handle		165048		165049		165049	
11	Vibration isolator	Kit, includes four (4) pads, option PC4		166769		166769		166770	
11A		Black, #120, orange marking (Kinetics #RCB)		166720 (4)		166720 (4)		—	
		Black, #220, green marking (Kinetics #RCB)		—		—		166721 (4))	
12	Paint	Touchup, white, 11-ounce spray can		201805		201805		201805	
13	Capillary tube	Limit control, 51 inches long		165030		—		—	
		Limit control, 55-1/2 inches long		—		165031		—	
		Limit control, 62-5/8 inches long		—		—		165032	
14	Bracket	Limit control		141676		141676		141676	

*Quantity is one (1) unless otherwise indicated.

VENTER COMPONENTS

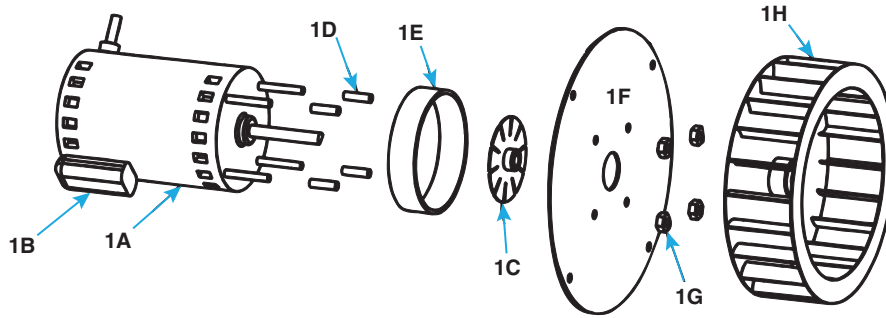


Figure 10. Venter Motor and Wheel Assembly (Refer to Table 18)

Table 18. Venter Components						
Item No.	Component	Description	Unit Size			
			150	200	250	300
			PN (Quantity)*			
1	Motor and wheel	Assembly	174010	162895	162895	164542
1A	Motor	Venter	161416		161416	205748
1B	Capacitor	Motor	163894	—	—	—
1C	Fan**	2-1/4-inch diameter × 3/8-inch bore (PM Motor Co)	141570		141570	141570
1D	Spacer	Spirol, #3 × 3/4, <i>discontinued</i> OCT 2007	97721 (4)		97721 (4)	97721 (4)
1E	Support ring	Motor, width dimension <i>changed</i> OCT 2007	125346		125346	125346
1F	Plate	Motor	151515	160930	160930	160930
1G	Nut	Kep, #8-32	31522 (4)		31522 (4)	31522 (4)
1H	Wheel	2 x 6-1/4 diameter, 3/8 bore	195666		195666	195666
2	Gasket	Motor plate	155652		155652	155652
3	Housing assembly	Includes housing, collar, and static pressure tap	164539	164540	164540	164541
4	Gasket	Venter	155650		155650	155649

*Quantity is one (1) unless otherwise indicated.
 **Install centered with hub away from motor.

VENT/COMBUSTION AIR COMPONENTS

NOTES:

- A concentric adapter box is used on separated-combustion units. The combustion air pipe connects to both sides—heater side and vent terminal side—of the box. The outside portion of the combustion air pipe connects to the vent terminal side. The vent pipe extends through the box and runs concentric through the outside portion of the combustion air pipe.
- Important: concentric adapter boxes manufactured *before* FEB 2001 have a vent pipe collar on the heater connection side. A factory-installed length of vent pipe runs through the box. If replacing a concentric adapter box manufactured *before* FEB 2001, the field-supplied vent pipe must be extended through the new box. Seal the opening around the vent pipe as it extends into the box.

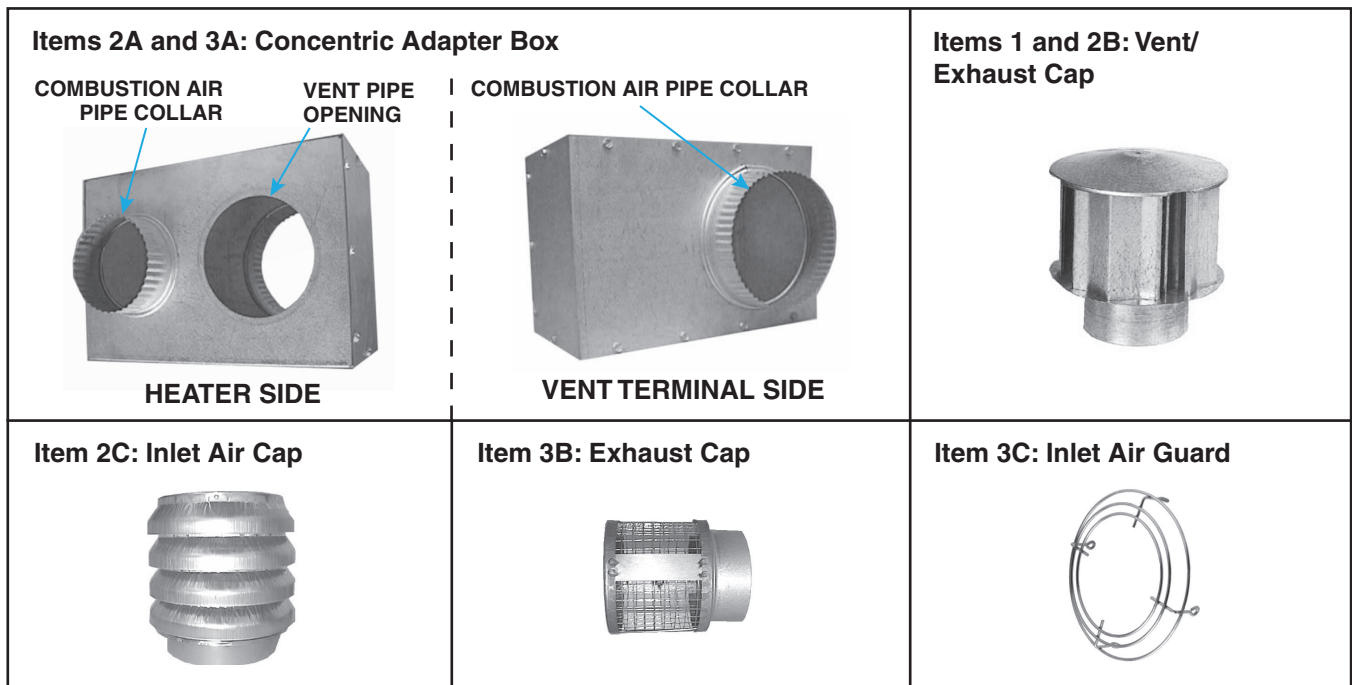


Figure 11. Vent/Combustion Air Components (Refer to Table 19)

Item No.	Component	Description	Unit Size	
			150, 200	250, 300, 350, 400
			PN (Quantity)*	
1	Vent cap	Option CC1, 5-inch	111849	—
		Option CC1, 6-inch	—	111850
2	Vent/combustion air kit	Vertical, option CC2	205895	205896
2A	Concentric adapter box		205884	205885
2B	Cap	Exhaust, 4-inch	110051	—
		Exhaust, 5-inch	—	110052
2C		Inlet air, 6-inch	155635	—
		Inlet air, 8-inch	—	53330
2D	Bracket	Concentric adapter box	207232 (2)	
2E	Clear sealant	3-ounce tube (DC #732)	53335	53335
3	Vent/combustion air kit	Horizontal, option CC6	205882	205883
3A	Concentric adapter box		205884	205885
3B	Cap	Exhaust	155096	53316
3C	Inlet guard	Assembly	151755	124940
3D	TEKS screw	#10-16 × 1/2, self-drilling	37661 (4)	
3E	Bracket	Concentric adapter box	207232 (2)	
3F	Clear sealant	3-ounce tube (D.C. #732)	53335	53335

*Quantity is one (1) unless otherwise indicated.

BURNER BOX AND HEAT EXCHANGER COMPONENTS

NOTE: Burner box covers are redesigned for easier access. If replacing burner box covers (item 12 or 13) on a unit manufactured *before* JAN 2001, it is necessary to order the right side (item 12), left side (item 13), left side gasket (item 14), front cover (item 19) and burner cover gasket (item 19A).

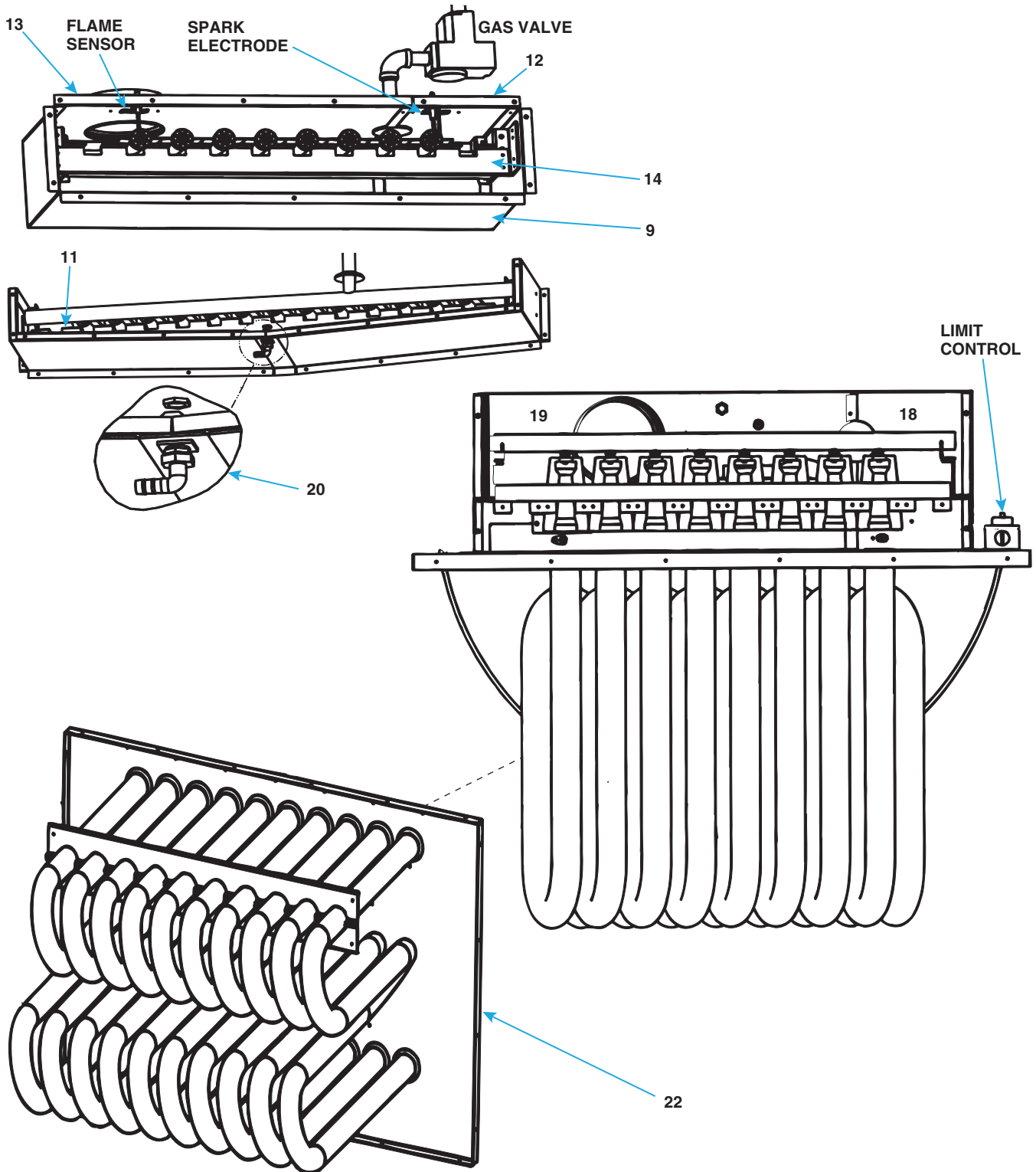


Figure 12. Burner Box and Heat Exchanger Components (Refer to [Table 20](#))

Table 20. Burner Box and Heat Exchanger Components

Item No.	Component	Description	Unit Size					
			150	200	250	300	350	400
			PN (Quantity)*					
1	Burner box	Aluminized	193997		193998		193999	
		409SS	258985		258986		258987	
2	Seal	Drain hole	165741		165741		165741	
3	Manifold	Burner	151787	151788	160931	160932	160933 160934	
3A	Support	Burner/manifold	160437 (2)	160437 (2)	160928 (2)		160928 (2)	
4	Burner rack	Assembly	163104	163105	163106	163107	163108 163109	
4A	Support rack	Burner	160625		160626		160627	
4B	Burner	Beckett #RZ11	164870		164870		—	
		Beckett #RZ10	—		—		164869	
5	Air baffle	Burner box, left	—		—		166317	
6		Burner box, right	—		—		166318	
7	Gasket	Burner box, front bottom	162806 (2)		162807 (2)		162808 (2)	
8		Burner box, front side	162800 (2)		162800 (2)		169939 (2)	
9		Burner box, top side	162801 (2)		162801 (2)		162801 (2)	
10		Burner box, side	162809 (2)		162809 (2)		169940 (2)	
11		Burner box, rear bottom	161171 (2)		161172 (2)		161173 (2)	
12	Cover	Burner box, right	175280	175281	175282	175283	175284 175285	
12A	Gasket	Right burner box cover, top	162803		162803		162803	
12B		Right burner box cover, front	162804		162804		162804	
12C		Right burner box cover, right	162811		162812		162813	
13	Cover	Burner box, left	194003**	194004**	194024**	194025**	160936 160937	
14	Gasket	Left burner box cover	162814		162815		162816	
15	Air inlet box	On top of the burner box	—		—		166315	
15A	Gasket	Air inlet box, side	—		—		169937 (2)	
15B		Air inlet box, front	—		—		169936	
16	Air inlet cover	Includes inlet air collar	—		—		166530	
17	Viewport	Left	115984		115984		115984	
17A	Gasket	Viewport, left	116037		116037		116037	
17B	Retainer	Viewport, left	142711		142711		142711	
18	Pressure tap	Static (TDI #AA3743)	116043 (2)		116043 (2)		116043 (2)	
19	Burner cover	Front	194124		194124		194124	
19A	Gasket	Burner cover	194127		194127		194127	
20	Condensate drain kit	Burner, for use with cooling coil	165951		165951		165951	
20A	Tubing	3/8-inch ID x 6-foot-long	165955		165955		165955	
20B	Tube fitting	3/8 x 1/4 NPT x 90-degree	165952		165952		165952	
20C	Nut	1/4 NPT, brass	110628		110628		110628	
20D	Locknut	Hex, 1/4 NPT (T&B #139)	171527		171527		171527	
20E	Washer	Sealing	165953		165953		165953	
20F	Wire tie	Nylon (T&B #TY-24M)	20913		20913		20913	
20G	Bushing	Snap (Heyco #SB625-8)	87556		87556		87556	
21	Support	Tube clamp	163435 (2)	163436 (2)	163437 (2)	163438 (2)	163439 (2) 163440 (2)	
22	Heat exchanger assembly	Aluminized steel	169963	169964	169965	169966	169967 169968	
		Stainless steel	259384	259385	259386	259387	259388 259389	

*Quantity is one (1) unless otherwise indicated.

**Includes collar.

Table 21. Burner Orifices and Gas Conversion Kits

Unit Size	Sea Level Burner Orifices		Quantity	Gas Conversion Kit	
	Natural Gas	Propane		Natural to Propane	Propane to Natural
	PN (Orifice Size/Marking)			PN	
150	164866 (2.1 mm)	97359 (1.25 mm)	8	269833	269849
200	11833 (#44)	11830 (#55)	10	269834	269850
250	11833 (#44)	97359 (1.25 mm)	13	170815	170810
300	11833 (#44)	11830 (#55)	15	170816	170810
350	11835 (#37)	9789 (#53)	12	170817	170811
400	45870 (#38)	61653 (1. mmMM)	14	170818	170812

MIXING BOX COMPONENTS

NOTES:

- An optional mixing box for outside and return air is available.
- Complete mixing box packages are shipped assembled for field-installation.

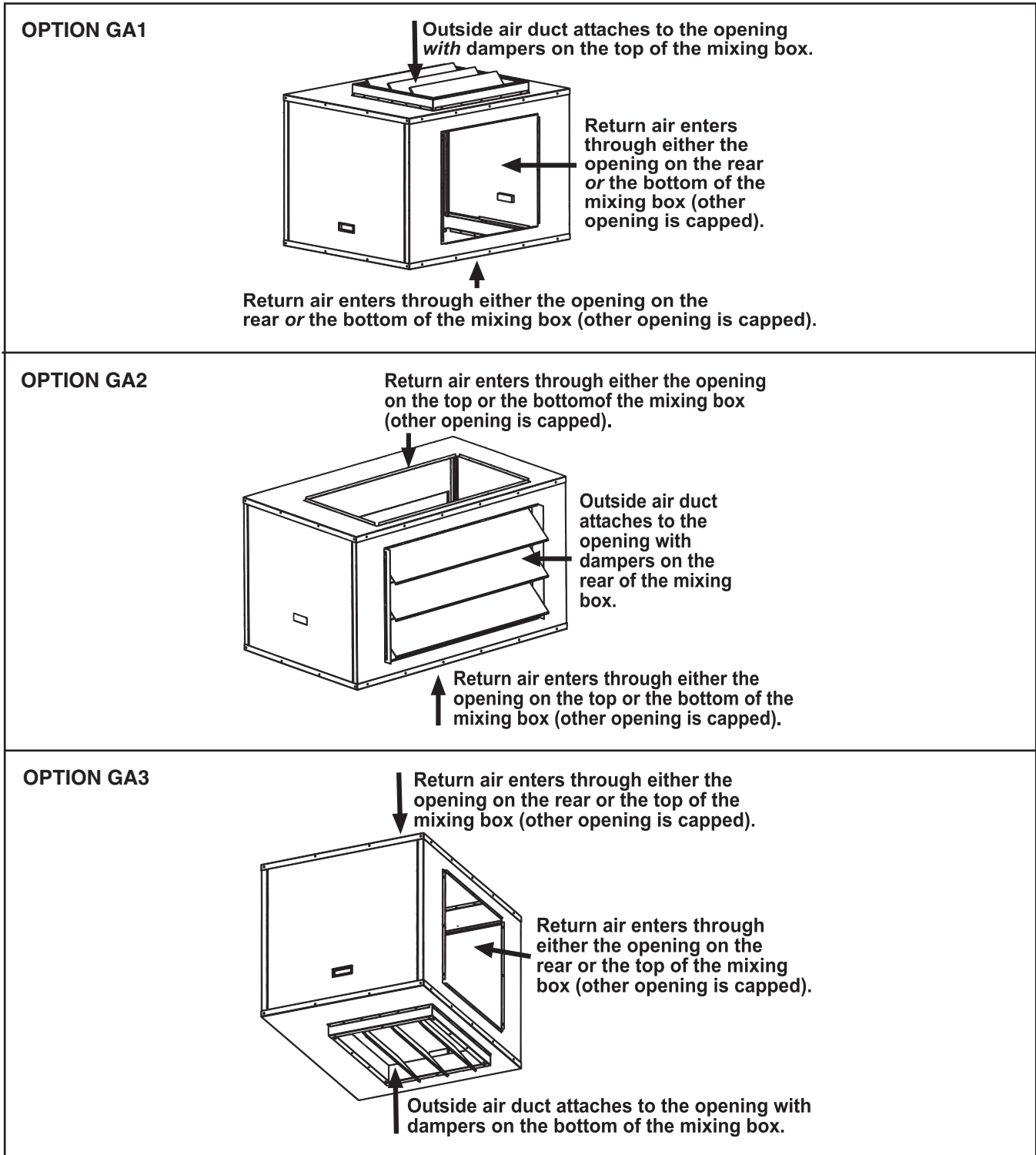


Figure 13. Typical Mixing Box Configurations (Refer to [Table 22](#))

Table 22. Mixing Box Options

Option	Description	Unit Size	
		150, 200	250, 300, 350, 400
		PN (Quantity)*	
GA1	Top outside air opening with dampers/rear or bottom return air opening without dampers	167226	167227
GA2	Rear outside air opening with dampers/top or bottom return air opening without dampers	167228	167229
GA3	Bottom outside air opening with dampers/top or rear return air opening without dampers	167230	167231
GA4	Bottom outside air opening with dampers/rear return air opening with dampers	171277	171278
GA5	Bottom outside air opening with dampers/top return air opening with dampers	171279	171280
GA6	Rear outside air opening with dampers/top return air opening with dampers	171281	171282
GA7	Rear outside air opening with dampers/bottom return air opening with dampers	171283	171284
GA8	Top outside air opening with dampers/rear return air opening with dampers	171285	171286
GA9	Top outside air opening with dampers/bottom return air opening with dampers	171287	171288

Table 23. Mixing Box Cabinet Components

Component	Configuration	Unit Size	
		150, 200	250, 300, 350, 400
		PN	
Panel	Top/bottom, open	170192	169952
	Top/bottom, solid	171768	171767
	Top/bottom, with duct connection	170612	170616
	Top, with duct connection and damper support	170623	170625
	Top, with damper and damper support	170624	170626
	Bottom, with damper	170627	170628
	Front (end), open	169945	169943
	Front (end), solid	171766	171765
	Front (end), with damper	170613	170617
	Rear	169949	169948
Channel	Door	169942 (2)	
Door	With handle	170620 (2)	
Stop	Door	169950 (2)	
Support	Damper	173429 (2)	
Cabinet leg	Used on boxes with a solid bottom	161155 (2)	161156 (2)
Damper		15869	15870

*Quantity is one (1) unless otherwise indicated.

Table 24. Mixing Box Filter Assembly Components

Component	Description	Unit Size	
		150, 200	250, 300, 350, 400
		PN (Quantity)*	
Channel	Assembly	165035	165036
Support	Bracket	169947 (2)	
	Filter Assembly, Right	170195	
	Filter Assembly, Left	170196	
	Filter	160636	165018
	Filter	170190	170189
Channel	Support	160923 (2)	160924 (2)
Plate	Blockoff	196570 (2)	106332 (2)
Filter	Pleated, 2 × 16 × 16	104109 (2)	104109 (6)
	Pleated, 2 × 16 × 20	104110 (2)	—
	Permanent, 2 × 16 × 16	104103 (2)	104103 (6)
	Permanent, 2 × 16 × 20	101620 (2)	—

*Quantity is one (1) unless otherwise indicated.

MIXING BOX COMPONENTS—CONTINUED









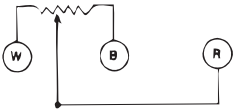

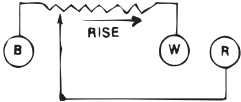




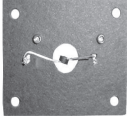

<p>Item 2: Two-Position Damper Motor</p> 	<p>Item 3: Modulating Damper Motor</p> 	<p>Item 4: Modulating Damper Motor</p> 	<p>Damper Linkage</p> <p>Item 6: </p> <p>Item 7: </p> <p>Item 8: </p> <p>Item 9: </p>
<p>Item 11: Potentiometer</p>  	<p>Item 12: Mixed Air Controller</p>  	<p>Item 13: Outside Air Controller</p>  	
<p>Item 15: Logic Module</p> 	<p>Item 16: Enthalpy Sensor</p> 	<p>Item 17: Mixed Air Sensor</p> 	<p>Item 18: Electronic Enthalpy Control</p> 

Figure 14. Mixing Box Damper Components (Refer to [Table 25](#))

Table 25. Mixing Box Damper Components

Item No.	Component	Description	Control Option (with Mixing Box Option)	PN (Quantity)*
1	Enclosure	Electrical	GB2 (GA1, GA2, GA3, GA4, GA5, GA6, GA7, GA8, GA9)	171770
			GB3, GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	
1A	Cover	Electrical enclosure	GB2 (GA1, GA2, GA3, GA4, GA5, GA6, GA7, GA8, GA9)	171771
			GB3, GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	
2	Motor	Two-position (J/C #M9206-BGB-201)**	GB2 (GA1, GA2, GA3, GA4, GA5, GA6, GA7, GA8, GA9)	209351
3		Modulating (HW #M9185E1019)	GB3 (GA4, GA5, GA6, GA7, GA8, GA9)	115682
4		Modulating (M/H #M7415A-1006)	GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	196302
5	Damper rod	1/4 × 9-1/2	GB3, GB4 (GA4, GA5, GA6, GA7)	114467
		1/4 × 11	GB2 (GA1, GA4, GA5, GA6, GA7)	14226
		1/4 × 19	GB3, GB4 (GA4, GA6, GA8, GA9)	171773
		1/4 × 22	GB2 (GA2, GA3, GA4, GA6, GA8, GA9)	26299
			GB3, GB4 (GA5, GA7, GA8, GA9)	
	1/4 × 24	GB2 (GA5, GA7, GA)8, GA9)	171774	
6	Arm	Damper (#26026)	GB2 (GA1, GA2, GA3, GA4, GA5, GA6, GA7, GA8, GA9)	12635 (3)
7		Crank (W/R #135-0002)	GB2 (GA1, GA2, GA3, GA4, GA5, GA6, GA7, GA8, GA9)	66277
8	Arm	Crank (M/H #221455A)	GB3, GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	116209
9	Ball/socket	M/H #27518	GB2 (GA1, GA2, GA3)	12636 (2)
			GB2, GB3, GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	12636 (4)
10	Plate	Adjustment, damper arm	GB2, GB3, GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	115687
11	Potentiometer	M/H #112894FA	GC1A, GC1B (GA4, GA5, GA6, GA7, GA8, GA9)	16110
12	Controller	Mixed air (M/H #T991A-1004)	GC3A (GA4, GA5, GA6, GA7, GA8, GA9)	16109
13		Outdoor air (J/C #A19AAF-120)	GC4 with GB2 (GA4, GA5, GA6, GA7, GA8, GA9)	126170
14	Holder	Bulb	GC3B with GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	171772
			GC4 with GB2 (GA4, GA5, GA6, GA7, GA8, GA9)	
15	Module	Logic (M/H #W7459A1001)	GC3B with GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	196289
16	Sensor	Enthalpy (M/H #C7400A1004)	GC3B with GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	196290
17		Mixed air sensor (M/H #C7150B1004)	GC3B with GB4 (GA4, GA5, GA6, GA7, GA8, GA9)	196291
			GC3C with GB2 (GA4, GA5, GA6, GA7, GA8, GA9)	
18	Control	Enthalpy, electronic (M/H #H705A1003)	GC3C with GB2 (GA4, GA5, GA6, GA7, GA8, GA9)	177230

*Quantity is one (1) unless otherwise indicated.

**If replacing motor PN 66376, order replacement kit PN 209423.

RETURN AIR FILTER CABINET COMPONENTS

NOTES:

- Optional side or rear (options CW4, CW5, CW6, CW7, CW8, CW9, CW10, CW11, and CW12) and bottom (CW13, CW15, CW15, and CW16) return air filter cabinets are available.
- Complete side and rear return air filter cabinet packages are shipped unassembled for field-assembly.
- If a complete bottom return air filter cabinet package is ordered, the cabinet is factory-assembled before shipping.
- Options CW8, CW9, and CW10 are available only with a horizontal inlet.
- For options CW13, CW14, CW15, and CW16, return air enters through the bottom of the filter cabinet. The cabinet may be placed with the filter access doors on either the front or rear of the heater.
- If required components are not listed, contact your distributor.

RETURN AIR FILTER CABINET COMPONENTS—CONTINUED

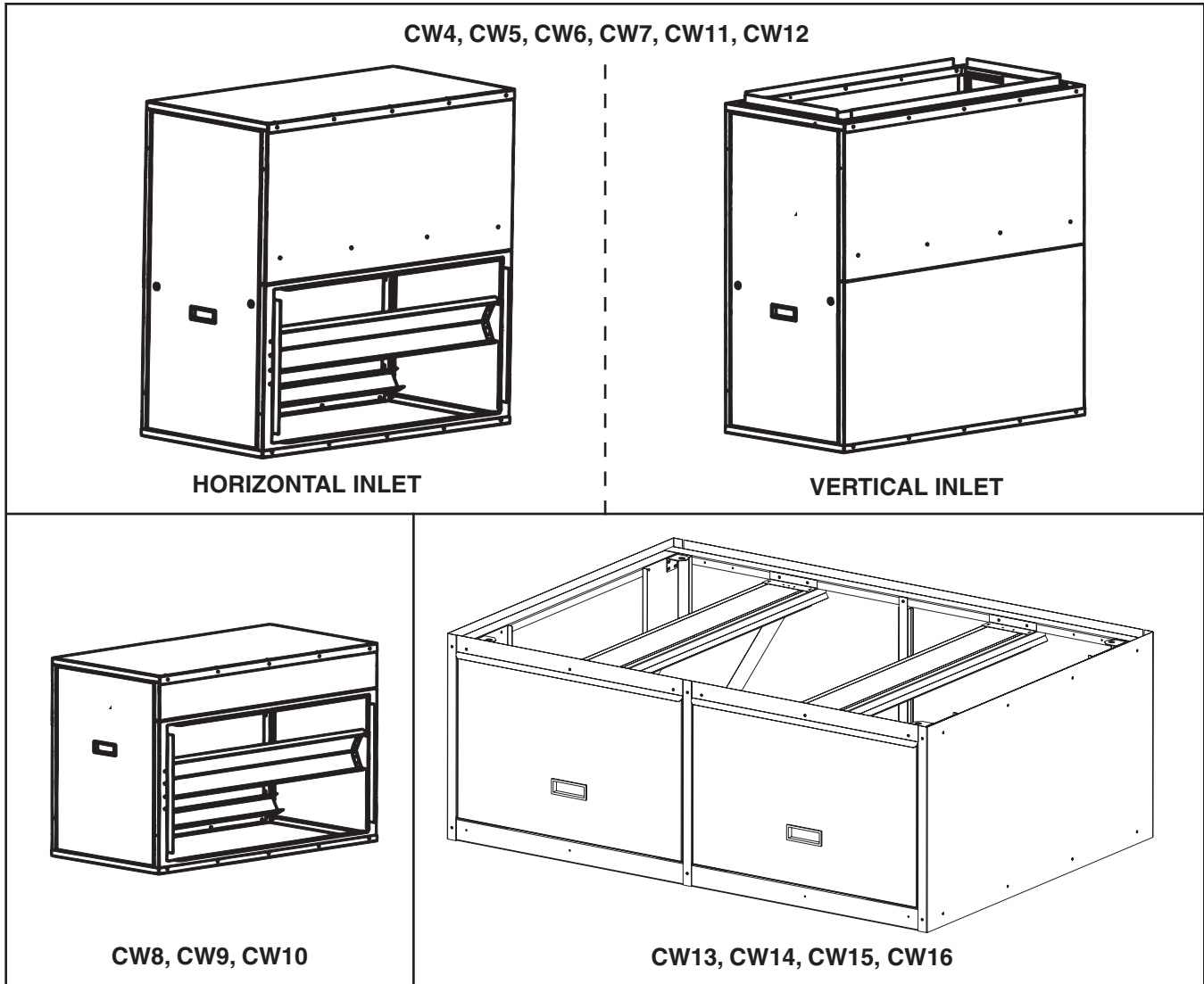


Figure 15. Return Air Filter Cabinet Assemblies

Table 26. Return Air Filter Cabinet Configurations

Option	Heater Connection Configuration	Return Air Inlet	Filters	Unit Size		
				150, 200	250, 300	350, 400
				PN		
CW4	Side	Horizontal or vertical	Pleated	166153	166153	166156
CW5	Side	Horizontal or vertical	Permanent	166154	166154	166157
CW6	Side	Horizontal or vertical	Field-supplied	166155	166155	166158
CW7	Rear	Horizontal or vertical	Pleated	166153	166156	166156
CW8	Side or rear	Horizontal	Pleated	166159	—	—
CW9	Side or rear	Horizontal	Permanent	166160	—	—
CW10	Side or rear	Horizontal	Field-supplied	166161	—	—
CW11	Rear	Horizontal or vertical	Field-supplied	166155	166158	166158
CW12	Rear	Horizontal or vertical	Permanent	166154	166157	166157
CW13	Front or rear	Bottom	Disposable	195165	195166	195167
CW14	Front or rear	Bottom	Pleated	195154	195155	195156
CW15	Front or rear	Bottom	Permanent	195157	195158	195159
CW16	Front or rear	Bottom	Field-supplied	195160	195161	195162

Table 27. Return Air Filter Cabinet Components

Component	Description	Option	Unit Size		
			150, 200	250, 300	350, 400
			PN (Quantity)*		
Panel	Bottom	CW4, CW5, CW6	160925	160925	160926
		CW7, CW11, CW12	160925	160926	160926
		CW8, CW9, CW10	164537	—	—
	Side	CW4, CW5, CW6, CW7, CW11, CW12	160634	160634	160634
		CW8, CW9, CW10	164536	—	—
		CW13, CW14, CW15, CW16	194686 (2)	194675 (2)	194675 (2)
	Rear or top inlet, with duct flange	CW4, CW5, CW6	160927	160927	164520
		CW7, CW11, CW12	160927	164520	164520
		CW8, CW9, CW10	164533	—	—
	Rear	CW13, CW14, CW15, CW16	194677	194662	194662
	Top or bottom rear	CW4, CW5, CW6	160630	160630	160631
		CW7, CW11, CW12	160630	160631	160631
		CW8, CW9, CW10	164537	—	—
	Top rear	CW4, CW5, CW6	160632	160632	160633
		CW7, CW11, CW12	160632	160633	160633
CW8, CW9, CW10		—	—	—	
Door cover	Top	CW13, CW14, CW15, CW16	194686	194672 (2)	194672 (2)
Door	Assembly, with handle and latch	CW4, CW5, CW6, CW7, CW11, CW12	165033	165033	165033
		CW8, CW9, CW10	166148	—	—
	Assembly	CW13, CW14, CW15, CW16	194938	194939 (2)	194939 (2)
Channel	Door	CW4, CW5, CW6, CW7, CW11, CW12	160635 (2)	160635 (2)	160635 (2)
		CW8, CW9, CW10	164535	—	—
Support	Filter	CW4, CW5, CW6	160636 (2)	160636 (2)	165018 (2)
		CW7, CW11, CW12	160636 (2)	165018 (2)	165018 (2)
		CW8, CW9, CW10	164704 (2)	—	—
	Filter, vertical inlet only	CW4, CW5, CW6	164524 (2)	164524 (2)	164525 (2)
		CW7, CW11, CW12	164524 (2)	164525 (2)	164525 (2)
		CW8, CW9, CW10	—	—	—
Channel	Filter support	CW4, CW5, CW6	160923 (2)	160923 (2)	160924 (2)
		CW7, CW11, CW12	160923 (2)	160924 (2)	160924 (2)
		CW8, CW9, CW10	164532 (2)	—	—
Channel	Filter, assembly	CW4, CW5, CW6	165035	165035	165036
		CW7, CW11, CW12	165035	165036	165036
		CW8, CW9, CW10	166147	—	—
Screw	Sheet metal, #10-32 × 1/2	CW4, CW5, CW6, CW7, CW11, CW12	113275 (54)	113275 (54)	113275 (54)
		CW8, CW9, CW10	113275 (20)	—	—
Brace	Corner	CW4, CW5, CW6, CW7, CW11, CW12	166151 (2)	166151 (2)	166151 (2)
Filter	Permanent, 2 × 16 × 16	CW5	104103 (4)	104103 (4)	104103 (6)
		CW9	104103 (4)	104103 (6)	104103 (6)
	Permanent, 2 × 12 × 16	CW12	114325 (4)	—	—
	Pleated, 2 × 16 × 16	CW4	104109 (4)	104109 (4)	104109 (6)
		CW7	104109 (4)	104109 (6)	104109 (6)
	Pleated, 2 × 12 × 32	CW8	114324 (2)	—	—
	Disposable, 2 × 16 × 16	CW13	104101 (6)	104101 (8)	104101 (12)
	Pleated disposable, 2 × 16 × 16	CW14	104109 (6)	104109 (8)	104109 (12)
Permanent aluminum, 2 × 16 × 16	CW15	104103 (6)	104103 (8)	104103 (12)	
Filter rack	Assembly, single	CW13, CW14, CW15, CW16	194916 (2)	194916 (4)	194917 (4)
	Assembly, double		194914 (2)	194914 (2)	194915 (2)
Blockoff	Filter		195164 (3)	195164 (4)	195164 (4)

*Quantity is one (1) unless otherwise indicated.

CASED COOLING COIL MODEL ACU (OPTION C) COMPONENTS

ACU Cabinet Components

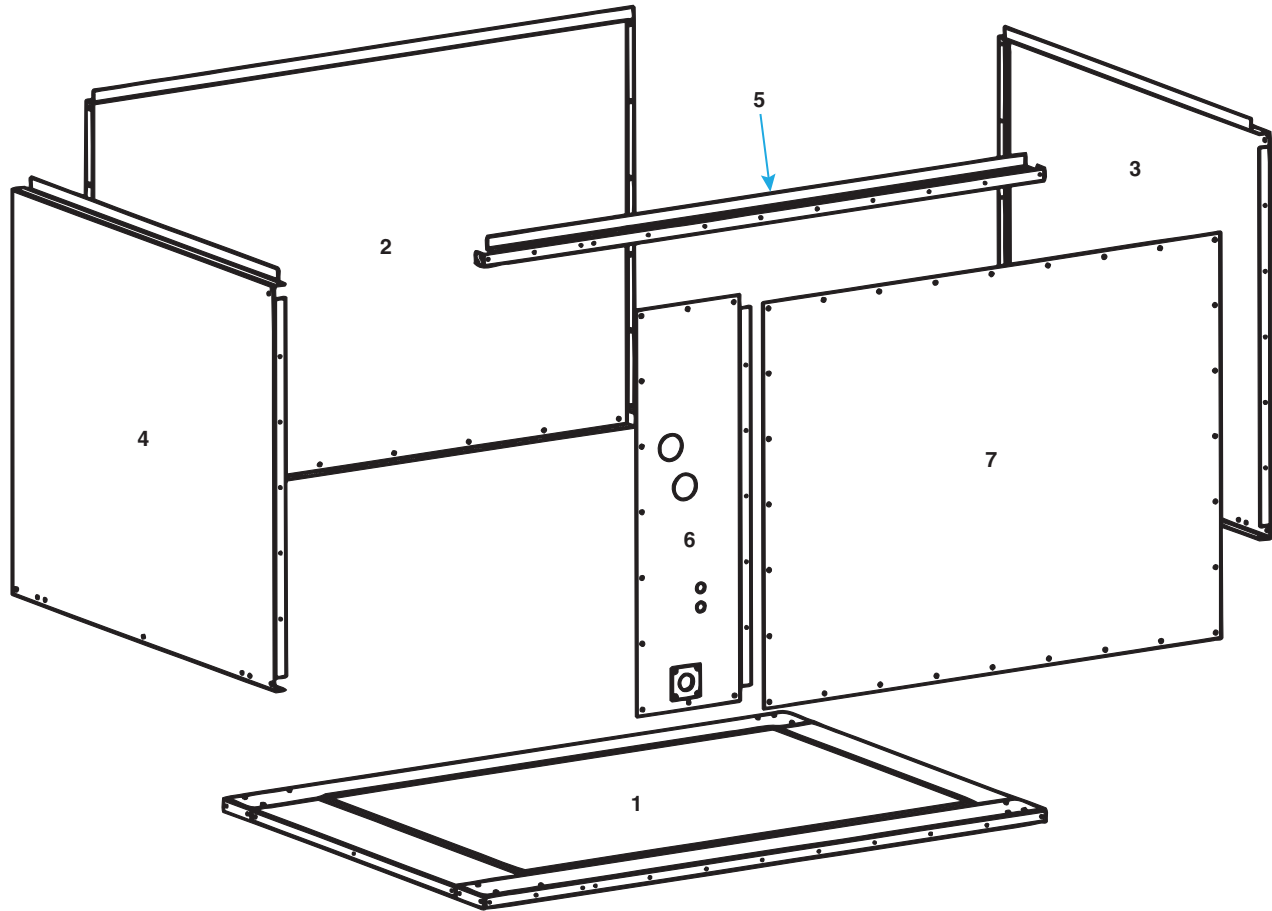


Figure 16. ACU Cabinet Assembly (Refer to [Table 28](#))

Table 28. ACU Cabinet Components									
Item No.	Component	Unit Size							
		150, 200			250, 300			350, 400	
		ACU Cooling Coil (C) Option							
		C060	C072	C090	C090	C120	C150	C120	C150
PN (Quantity)*									
1	Casing inner assembly	164749			164750			164751	
2	Casing back assembly	165988			165989			165990	
3	Casing right side assembly	165991			165991			165992	
4	Casing left side assembly	165993			165993			165994	
5	Casing top front	164735			164736			164736	
6	Casing panel assembly	165995	174862	165996	165996			165997	
6A	Casing panel	164724		164725	164725			164726	
6B	Insulation	—			—			—	
6C	Grommet, 3/8 (Kennerd #375-C)	165171	—	165171 (2)	165171 (2)	—	165171 (2)	—	
	Grommet, 1/2 (Kennerd #500)	—	111067	—	—		111067 (2)	—	111067 (2)
	Grommet, 7/8 (Kennerd 1020-T)	102607		102607 (2)	102607 (2)			102607 (2)	
6D	Drain cover gasket	164705			164705			164705	
6E	Drain cover plate	164706			164706			164706	
7	Door assembly	165998			165999			166000	
8	Coil clamp	171276 (2)			171276 (2)			171276 (2)	

*Quantity is one (1) unless otherwise indicated.

ACU Thermostatic Expansion Valves (TXVs) and Reducers

⚠ CAUTION ⚠

TXVs are designed for specific refrigerant—R-410A or R22—and must be sized to match the circuit. Failure to properly select and size the TXV will prevent the system from operating properly and will void the manufacturer's warranty.

NOTE: The TXV is attached at the liquid line connection with the bulb on the suction line. Follow the manufacturer's instructions to install the TXV (see [Figure 17](#)).

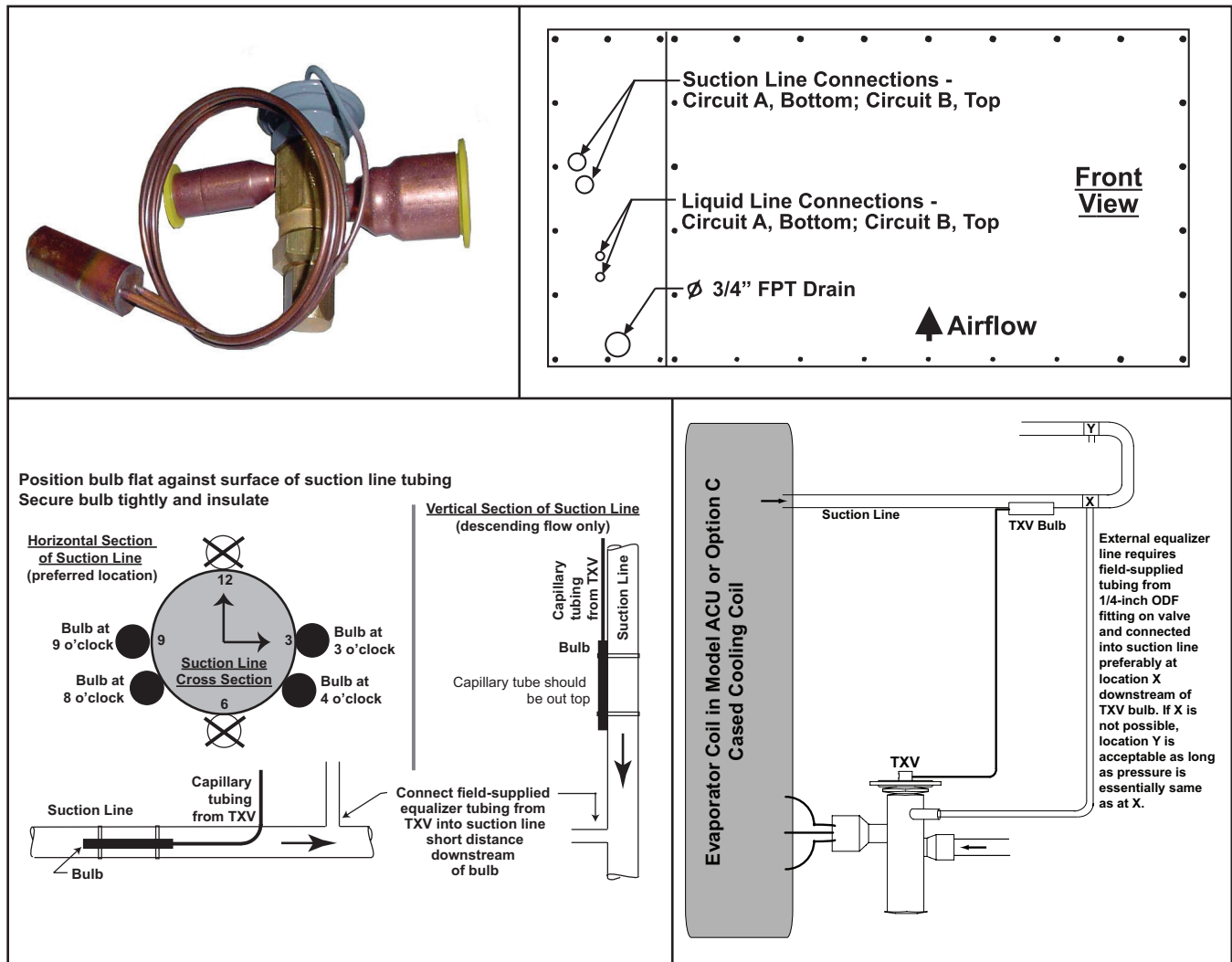


Figure 17. TXV Connections

CASED COOLING COIL MODEL ACU (OPTION C) COMPONENTS—CONTINUED

ACU Thermostatic Expansion Valves (TXVs) and Reducers—Continued

Table 29. TXVs and Reducers												
Refrigerant	ACU Model	ACU Unit Size	TXV Kit*	Circuit**	TXV				Distributor Connection (Inches) ^{††}	Reducer PN		
					MFR's No.	PN	Outlet (Inches)	Inlet (Inches) [†]				
R-410A	ACUA	060	258856	A	BBIZE-5	234052	7/8	5/8	5/8	216428		
			258858	A	BBIZE-2	220552	5/8	1/2	5/8	—		
		072	258857	B	BBIZE-3	220553	5/8	5/8	5/8		—	
			258860	A	BBIZE-6	220555	7/8	5/8	7/8	216428		
		090	258860	A and B	BBIZE-4	220554	7/8	5/8	5/8		—	
			258861	A	BBIZE-3	220553	5/8	5/8	5/8	216428		
	ACUB	090	258860	A and B	BBIZE-4	220554	7/8	5/8	5/8		216428	
			258861	A	BBIZE-3	220553	5/8	5/8	5/8	—		
		120	258862	B	BBIZE-5	234052	7/8	5/8	5/8		216428	
			258863	A and B	BBIZE-5	234052	7/8	5/8	5/8	—		
		150	258864	A	BBIZE-3	220553	5/8	5/8	5/8		216428	
			258865	B	BBIZE-6	220555	7/8	5/8	7/8	—		
		ACUC	120	258864	A and B	BBIZE-6	220555	7/8	5/8		7/8	216428
				258866	A	BBIZE-4	220554	7/8	5/8	5/8	—	
			150	258867	B	BBIZE-8	220557	7/8	5/8	1-1/8		216432
				258868	A and B	BBIZE-8	220557	7/8	5/8	1-1/8	216432	
			180	258867	A	BBIZE-5	234052	7/8	5/8	5/8		216428
				258868	B	BBIZE-8	220557	7/8	5/8	1-1/8	216432	
	R-22	ACUA	060	258869	A	BBIVE-5	179306	1/2	1/2	5/8		235131
				258870	A	BBIVE-6	179307	7/8	1/2	7/8	—	
			090	258871	A and B	BBIVE-4	176302	1/2	1/2	5/8	235131	
				258872	A	BBIVE-3	177381	1/2	1/2	5/8	235131	
			ACUB	090	258871	B	BBIVE-5	179306	1/2	1/2	5/8	235131
					258872	A and B	BBIVE-4	176302	1/2	1/2	5/8	235131
120		258873		A	BBIVE-3	177381	1/2	1/2	5/8	235131		
		258874		B	BBIVE-6	179307	7/8	1/2	7/8	—		
150		258875		A and B	BBIVE-5	179306	1/2	1/2	5/8	235131		
		258876		A	BBIVE-4	176302	1/2	1/2	5/8	235131		
ACUC		120	258875	B	BBIVE-8	194153	7/8	1/2	7/8	—		
			258873	A and B	BBIVE-5	179306	1/2	1/2	5/8	235131		
		150	258874	A	BBIVE-3	177381	1/2	1/2	5/8	235131		
			258875	B	BBIVE-6	179307	7/8	1/2	7/8	—		
		180	258877	A and B	BBIVE-6	179307	7/8	1/2	7/8	—		
			258877	A	BBIVE-4	176302	1/2	1/2	5/8	235131		
ACUC		150	258877	B	BBIVE-8	194153	7/8	1/2	1-1/8	216432		
			258878	A and B	BBIVE-8	194153	7/8	1/2	1-1/8	216432		
		180	258878	A	BBIVE-5	179306	1/2	1/2	5/8	235131		
			258879	B	BBIVE-8	194153	7/8	1/2	1-1/8	216432		

*Includes TXVs and reducers for both circuit A and B except for some smaller ACU unit sizes.

**Circuit A = bottom liquid line inlet and bottom suction connection. Circuit B = top liquid line inlet and top suction connection.

†Distributor connection is on coil.

††Tubing connection size.

ACU Replacement Coils



Figure 18. ACU Evaporator Coil

Refrigerant	ACU Model	ACU Unit Size	Circuit		Evaporator Coil				
			Description	Code	Row	Fin Height	Fin Length	Fins Per Inch	PN
R-410A	ACUA	060	Single	AUD1	2	20	28	10	257328
		060	1/3-2/3	AUD3	2	20	28	10	258846
		072	Single	AUD1	2	20	28	12	257329
		090	50/50	AUD2	3	24	28	10	257538
		090	1/3-2/3	AUD3	3	24	28	10	257330
	ACUB	090	50/50	AUD2	2	24	42	12	257539
		090	1/3-2/3	AUD3	2	24	42	12	257331
		120	50/50	AUD2	3	20	42	10	257540
		120	1/3-2/3	AUD3	3	20	42	10	257332
		150	50/50	AUD2	3	24	42	12	257541
	ACUC	150	1/3-2/3	AUD3	3	24	42	12	257333
		120	50/50	AUD2	2	30	41	12	257542
		120	1/3-2/3	AUD3	2	30	41	12	257334
		150	50/50	AUD2	3	27	41	10	257543
		150	1/3-2/3	AUD3	3	27	41	10	257335
R-22	ACUA	180	50/50	AUD2	3	30	41	10	257544
		180	1/3-2/3	AUD3	3	30	41	10	257336
		060	Single	AUD1	2	20	28	10	257328
		072	Single	AUD1	2	20	28	12	257329
		090	50/50	AUD2	3	24	28	10	257538
	ACUB	090	1/3-2/3	AUD3	3	24	28	10	257330
		090	50/50	AUD2	2	24	42	12	257539
		090	1/3-2/3	AUD3	2	24	42	12	257331
		120	50/50	AUD2	3	20	42	10	257540
		120	1/3-2/3	AUD3	3	20	42	10	257332
	ACUC	150	50/50	AUD2	3	24	42	12	257541
		150	1/3-2/3	AUD3	3	24	42	12	257333
		120	50/50	AUD2	2	30	41	12	257542
		120	1/3-2/3	AUD3	2	30	41	12	257334
		150	50/50	AUD2	3	27	41	10	257543
	ACUC	150	1/3-2/3	AUD3	3	27	41	10	257335
		180	50/50	AUD2	3	30	41	10	257544
		180	1/3-2/3	AUD3	3	30	41	10	257336

OPTIONAL DISCHARGE PLENUM AND INLET BASE (UNIT SIZES 350 AND 400)

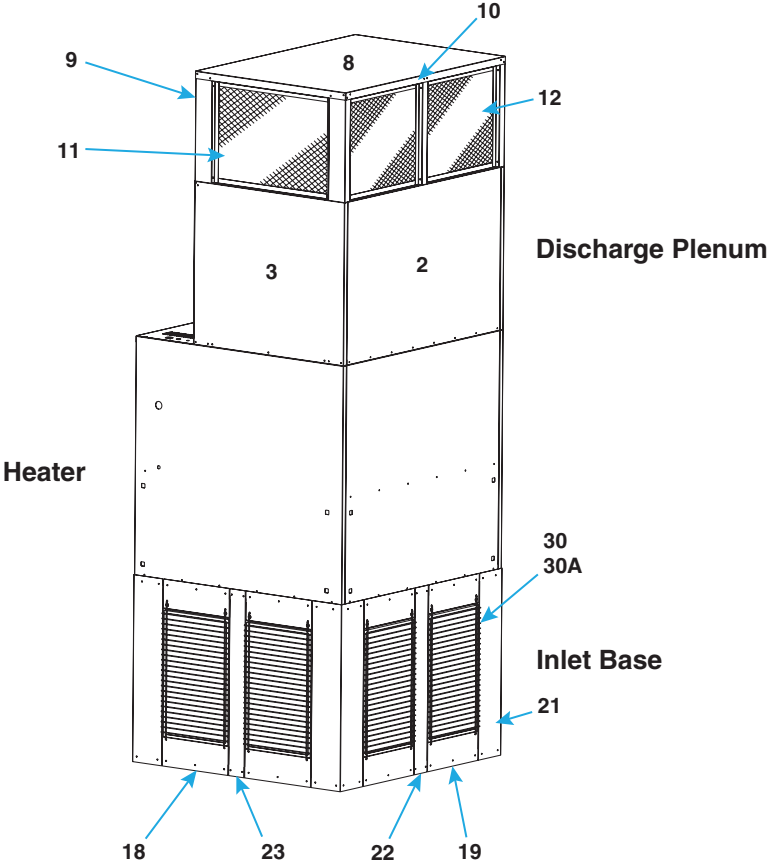


Figure 19. Discharge Plenum and Inlet Base Assembly (Refer to [Table 31](#) and [Table 32](#))

Table 31. Discharge Plenum Option Packages		
Option	Option Package Description	PN
CD60	Screened discharge plenum	176351
CD61	Screened discharge plenum with blockoff plates	176364
CD62	Screened discharge plenum for high velocity discharge with cooling coil	176365

Table 32. Discharge Plenum and Inlet Base Components

Assembly	Item No.	Component	PN (Quantity)*	Option
Discharge plenum	1	Cabinet inner assembly	164751	CD60, CD61, CD62
	2	Cabinet back with insulation	165990	CD60, CD61, CD62
	3	Cabinet right side with insulation	165992	CD60, CD61, CD62
	4	Cabinet left side with insulation	165994	CD60, CD61, CD62
	5	Cabinet top front	164736	CD60, CD61, CD62
	6	Cabinet panel with insulation	176360	CD60, CD61
			165997	CD62
	7	Access door with insulation	166000	CD60, CD61, CD62
	8	Cabinet top	176340	CD60, CD61, CD62
	9	Corner post	176339 (2)	CD60, CD61, CD62
			176335 (2)	CD60, CD61, CD62
	10	Center post	176338 (2)	CD60, CD61, CD62
	11	End screen	176357 (4)	CD60, CD61, CD62
	12	Side screen	176358 (2)	CD60, CD61, CD62
	13	Screen retainer	176342 (4)	CD60, CD61, CD62
			176341 (12)	CD60, CD61, CD62
			176356 (8)	CD60, CD61, CD62
14	Discharge blockoff, side, full	176366	CD61	
15	Discharge blockoff, end, full	176367 (2)	CD61	
16	Discharge blockoff, side, half	176368 (4)	CD62	
17	Discharge blockoff, end, half	176369 (2)	CD62	
Assembly	Item No.	Component	Description	PN (Quantity)*
Inlet base	18	Base	End	176333 (2)
	19	Base	Side	176335 (2)
	20	Leveler		176347 (4)
	21	Corner post		176332 (4)
	22	Center post	Side	176330 (2)
			End	176331 (2)
	24	Base top rail (side)	Side	176337 (2)
	25	Top rail (end)	End	176336 (2)
	26	Leg	Inner	176334 (4)
	27	Plate	Mounting	176344 (4)
	28	Panel	Top filler	176345 (8)
			Bottom filler	176346 (8)
	30	Guard	Filter	176303 (8)
	30A	Receiver	Filter guard	176511 (16)
	31	Filter	Disposable, 1 × 16 × 25	16447 (8)
Permanent, 1 × 16 × 25			101609 (8)	
Pleated disposable, 1 × 16 × 25			104107 (8)	

*Quantity is one (1) unless otherwise indicated.

