NORTEK GLOBAL HVAC

Revision: P-ADF (02-22) 270068-A

Supersedes: P-ADF (08-19) PN270068R9

REPLACEMENT PARTS FOR DIRECT-FIRED MAKEUP AIR HEATERS

MODELS ADF AND ADFH



TABLE OF CONTENTS

REFERENCES 2
RATING PLATE 2
SERIAL NUMBERS 3
CABINET CONFIGURATIONS 4
ELECTRICAL COMPONENTS 4
BLOWER MOTORS, CONTACTORS, AND STARTERS 9
MODULATING GAS CONTROLS 17
GAS REGULATORS, VALVES, AND PRESSURE SWITCHES 18
HOT SURFACE IGNITION COMPONENTS 21
REPLACEMENT BURNERS 21
DISCHARGE DAMPERS AND CONTROLS 23
BLOWER/BLOWER MOTOR MOUNTING COMPONENTS 24
DRIVE COMPONENTS 26
CABINET COMPONENTS 32
INLET AIR HOOD ASSEMBLIES 33
ROOF CURBS 35

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 either kit or component Part Number (PN).

REFERENCES

Table 1. Related Technical Manuals Available from Factory Distributor		
Type	**Form**	**Part/Document No,**
Installation	I-ADF	131805
Operation/maintenance/service	O-ADF/RDF	148385
Replacement valves and ignition controls	P-VALVES	D300522

RATING PLATE

SAMPLE RATING PLATE AND KEY

MERCER, PA. USA 16137

ANSI Z83.4/CSA 3.7-2013 NON-RECIRCULATING DIRECT-FIRED INDUSTRIAL AIR HEATER
ANSI Z83.4/CSA 3.7-2013 AIR RECYCLE NON DIRECT INDUSTRIEL TIRE DU RECHAUFFEUR D'AIR
FOR INDUSTRIAL/COMMERCIAL USE ONLY
FOR EITHER INDOOR OR OUTDOOR INSTALLATION
INSTALLER À L'INTÉRIEUR OU À L'EXTÉRIEUR
MODEL { A } SERIAL # { computer generated }
GAS TYPE{ B } MOTOR HP{ C }
VOLTAGE { D } PHASE{ E } 60 HZ
MAX TOTAL INPUT AMPS FOR THE UNIT { F }
WIRING DIAGRAM NUMBER: { P }
UNIT IS EQUIPPED FOR { G } SCFM AGAINST { H } IN WC ESP
WITH A MAX DISCH TEMP OF { Q } °F AND A MAX TEMP RISE OF { Z } °F AND CANNOT BE USED BELOW -40 °F
CONCU POUR { X } M^3 CONTRE UNE PRESSION STATIQU EXTERNE DE { W } KPA (PO C.E.) WITH A MAX DISCHARGE TEMP OF { Y } °C AND A MAX TEMP RISE OF { AA } °C AND CANNOT BE USED BELOW -40 °C.
MAXIMUM INPUT RATING { J } BTU/HR
MINIMUM INPUT RATING (K } BTU/HR
NORMAL MANIFOLD PRESS { L } IN WC
MIN GAS INLET PRESS. FOR BURN. ADJ. { M } IN WC
MAX PERMISSIBLE GAS SUPPLY PRESS. { N } PSI
MIN PRESSURE DROP ACROSS BURNER 0.25 IN WC
MAX PRESSURE DROP ACROSS BURNER 0.75 IN WC
MAXIMUM INPUT RATING { R } KW/HR
MINIMUM INPUT RATING { S } KW/HR
NORMAL MANIFOLD PRESS. { T } KPA
MIN GAS INLET PRESS. FOR BURN. ADJ. { U } KPA
MAX PERMISSIBLE GAS SUPPLY PRESS. { V } KPA
MIN PRESSURE DROP ACROSS BURNER 0.0625 KPA
MAX PRESSURE DROP ACROSS BURNER 0.1875 KPA
CLEARANCES TO COMBUSTIBLES: TOP, BOTTOM, AND SIDE OPPOSITE CONTROLS - 1 INCH. FOR SERVICE ON CONTROL SIDE OF UNIT - WIDTH OF UNIT

A = Model No.
B = Gas Type (Natural or LP)
C = Motor Horespower
D = Voltage
E = Phase
F = Maximum Total Input Amps for Unit
G = SCFM
H = ESP (IN WC)
I = CFM
J = Maximum Input (BTUh)
K = Minimum Input (BTUh)
L = Manifold Pressure (IN WC)
M = Minimum Inlet Pressure (IN WC)
N = Maximum Supply Pressure (PSI)
P = Wiring Diagram No.
Q = Maximum Discharge Temperature (°F)
R = Maximum Input (kW/hour)
S = Minimum Input (kW/hour)
T = Manifold Pressure (KPA)
U = Minimum Inlet Pressure (KPA)
V = Maximum Supply Pressure (KPA)
W = ESP (KPA)
X = M^3
Y = Maximum Discharge Temperature (°C)
Z = Maximum Temperature Rise (°F)
AA = Maximum Temperature Rise (°C)

SERIAL NUMBERS

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* JUNE 2015

Serial No. Sample: BLJ 82 V1 N 00000 CA MV7
Elements of No.: 1 | 2 | 3 | 4 | 5 | 6 | 7

Key:

1 = Date code (refer to **Table 2**)
2 = Type of pilot
3 = Type of valve (refer to form P-Valves listed in **Table 1** to identify valve by code)
4 = Type of gas (N = natural, L = propane)
5 = Consecutive number
6 = Type of air control: CA = constant air volume, VA = variable air volume, and RA = recirculation air
7 = Type of Maxitrol gas control: MV7 = system 14, MV8 = system 14A, and MVC = A200

DECODING A SYSTEM SERIAL NUMBER FOR ALL MODELS *AFTER* MAY 2015

Serial No. Sample: BOG 3060 000000
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

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

Year	Month											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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

CABINET CONFIGURATIONS

NOTE: Unit sizes 300 and 500 have a single blower. Unit sizes 700 and 1200 have dual blowers.

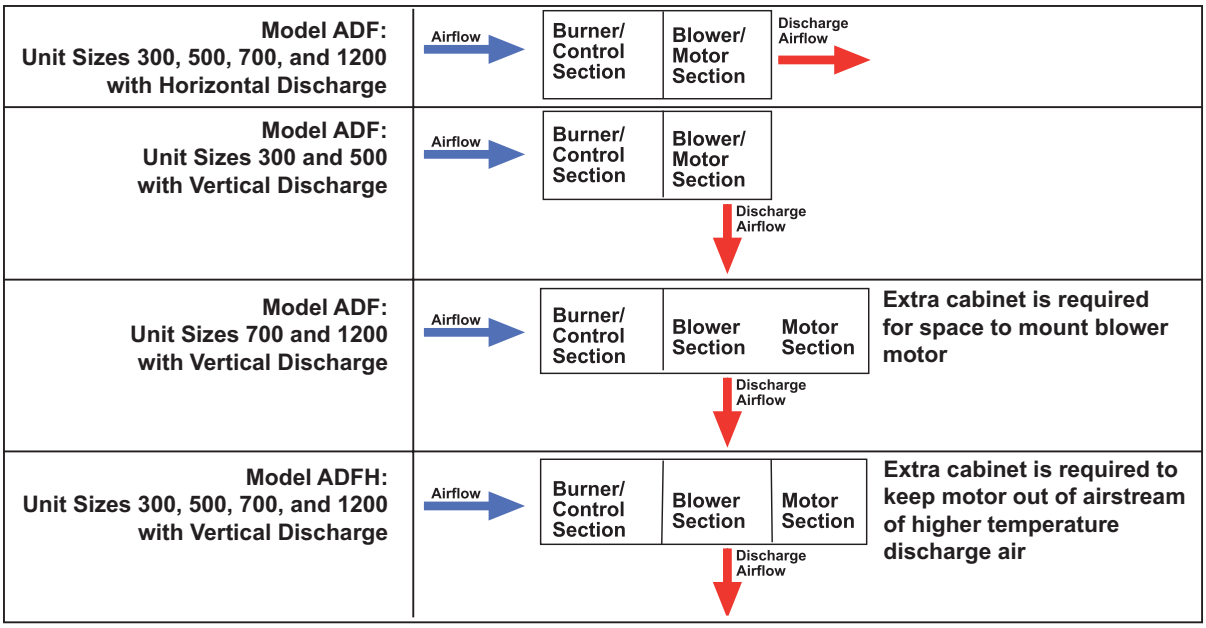
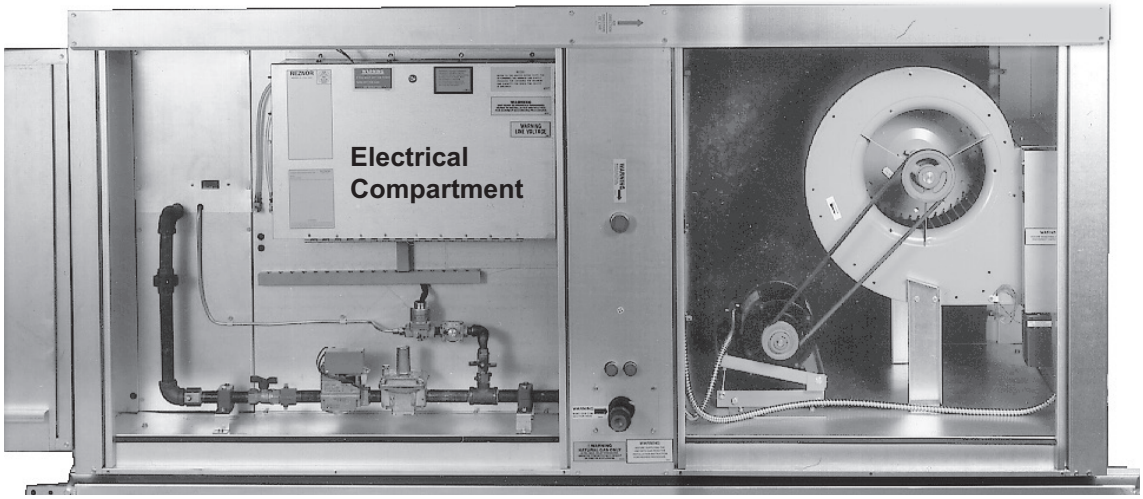


Figure 1. Cabinet Configurations

ELECTRICAL COMPONENTS



Burner/Gas Train/Electrical Compartment **Motor and Blower**

NOTE: Model ADF (unit size 300) shown.

Figure 2. Cabinet Compartments (Refer to Table 3)

Table 3. Electrical Components (See Figure 3)

Item No.	Component	Description	PN	Compartment/ Location (See Figure 2)
1	PC board	Assembly, circuit board with diagnostic lights	151263	Electrical
1A	Light	Replacement for PC board assembly	125189	
1B	Relay		151271	
2	Relay	SPST or SPDT, 24V coil (units manufactured ***after*** JUL 2011)	211411	Control
		SPST or SPDT, 120V coil (units manufactured ***after*** JUL 2011)	211414	
2A	Socket base	Relay	211415	
2B	Replacement kit (not shown)	For PN 211411, replaces PNs 14747, 98118, and 103317 (units manufactured ***before*** AUG 2011)	263527	
		For PN 211414, replaces PNs 103318 and 103319 (units manufactured ***before*** AUG 2011)	263530	
3	Time delay relay	For freezestat bypass (T&B Agastat #VTM1ULA)	89661	Electrical
		Low fire, 24V coil (Thermodisc #F12S20, style 305005)	89254	Control
4	Starter relay	SPDT, 24V coil, for single- and two-speed starters, options AN10 and AN12 (Essex #91-102006-13088)	110656	Electrical
5	Limit device	Energy cutoff	82414	Burner/control
6	Limit switch	Automatic, 130°F for model ADF units	122856	Blower section
		Automatic, 170°F for model ADFH units	57953	
6A	Shield (not shown)	Limit switch	12229	
7	High temperature limit	Manual reset, 135°F for model ADF units	122858	
		Manual reset, 175°F for model ADFH units	122990	
8	High ambient cutoff	J/C #A19AAF-12C	126170	Electrical
9	Freezestat	J/C #19AAF-12C	126170	Blower
9A	Clamp (not shown)	Grommet	131993	
9B		Cable	132065	
10	Firestat	200°F (Honeywell #L4029E1029)	42782	Blower discharge
11	Pressure switch, air	Low pressure, set at 0.25 IN WC (IS2-0211)*	203932	Electrical
		Low pressure, kit to replace PN 86986 (#FS4197-166 or PPS10175-3043)*	193806	
12		High pressure, set at −0.75 IN WC, (IS2-2075055F5193)	203933	
		High pressure, kit to replace PN 86987 (#FS4197-164 or PPS10175-3041)	193807	
13	Bushing and insect screen for sensing probes (not shown)		96794	—
14	Outlet receptacle	Convenience (Hubbell #GF5352-1)	96912	Control
15	Pressure switch	Dirty filter, set at 0.3 IN WC, remote console option (Tri-Delta #AP4434)	105507	Electrical
16	Door switch	Option BX1 (Honeywell Micro-Switch #LLSNIA-3P)	124253	Overhead door
17	System switch	DPDT, Summer/Off/Winter	101900	Remote console
18	Toggle switch	SPDT, Spray/Dry	101901	
19	Smoke detector	Photoelectric air duct, option SA1 (D4120)	159553	Ductwork
19A	Sampling tube (not shown)		259069	
20	Fuseholder		60241	Electrical
21	Fuse	8A (Fusetron)	201773	
22	Terminal block	#KT3	144972	Electrical and remote console
22A	Mounting adapter	Terminal block (KAD)	144973	
23	Transformer		Refer to Table 4	Electrical
24	Thermostsat	Snap acting, single-stage, 50–90°F heat/cool, 24V, with fan auto/on and cool/off/heat switches (same as option CL1** or RCT1***)	255350	Wall or remote console
		Digital, two-stage, 40–90°F heat/cool, 24V, with fan auto/on function (same as option CL22** or RCT2***)	220630	
		Programmable, single-stage, 45–88°F heat/cool, 24V, with fan auto/on and cool/off/heat (same as option CL52**)	220632	
25	Thermostat guard	6 × 5 × 2.5 inches (same as option CM1)	257464	
		8.4 × 5.8 × 3 inches (same as option CM1B)	257463	
26	Remote console box	10-9/16 × 7-1/4 × 2-5/8 inches (height changed OCT 2001)	107010	Remote location
		15-9/16 × 7-1/4 × 2-5/8 inches (height changed OCT 2001)	107011	
26A	Mounting ring	Remote console box, for 10-15/16-inch-long box	107014	
		Remote console box, for 15-15/16-inch-long box	107015	
26B	Light	Indicator, red (Solico 3039-3-11-41610)	101889	
27	Disconnect switch		Refer to Table 5	

*Units manufactured after AUG 2003.

**Mounted on the wall.

***Mounted on the remote console.

Table 4. Transformers

Volts Out	Volts In	VA	Manufacturer's Model	PN
24	120	40	Basler #BE141650-WAA (used with spark igntion, two (2) required to replace PN 61806)	103055
		500	Hevi-Duty T500E	159842
	120/240	250	TB1-81146 (used with hot surface ignition)	38634
	208	200	Hevi-Duty #2223034T00	39094
	208/240	40	Basler #BE21539001 (two (2) required to replace PN 61807)	103497
	208/230/460	500	Hevi-Duty T500CK	159843
	460	40	Basler #BE23975001 (two (2) required to replace PN 61808)	103498
	208/240/480/575	200	C0200KAT	39095
			Cutler-Hammer Eaton C0200KAT (used with PN 105202 to replace PN 124002)	39095
110	208	500	Hevi-Duty #2227003T00	86998
	230/460		Hevi-Duty #2227001T00	86997
120	208/230/460/575	275	C0275KAU E5E	105202
			Cutler-Hammer Eaton C0275KAU (used with PN 39095 to replace PN 124002)	105202

Table 5. Disconnect Switches

Application	Volts	Fusible/Non-Fusible	Amps	Option*	PN
Indoor	240	Non-fusible	30	CP1	161451
		Fusible		CP2	161452
	600	Non-fusible	30	CP3	161453
		Fusible		CP4	161454
Raintight	240	Non-fusible	30	CP5	161455
		Fusible		CP6	161456
	600	Non-fusible	30	CP7	161457
		Fusible		CP8	161458
	240	Fusible	60	CP17	161459
			100	CP18	161460
			200	CP19	166465
	600	Fusible	60	CP20	161461
Indoor	240	Non-fusible	60	CP21	161462
			100	CP22	161463
	600	Non-fusible	60	CP23	161464
			100	CP24	164330
		Fusible	100	CP25	161465
	240	Non-fusible	200	CP26	166466
		Fusible	60	CP27	161467
			100	CP28	161468
			200	CP29	166467
Raintight	240	Non-fusible	60	CP30	161469
			100	CP31	162834
			200	CP32	166468
Indoor	600	Fusible	60	CP33	162835

*Refer to **Table 6** for disconnect switch option selection.

NOTE: Fuses are not included with disconnect switches.

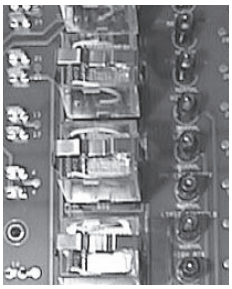
Table 6. Disconnect Switch Option (CP) Selection					
HP	FLA (Approximate	V/PH			
		115/1	208/1 or 230/1	208/3 or 230/3	460/3 or 575/3
		CP Option			
1/4	9.3	CP1/CP2/CP5/CP6	—		
	4.7	—	CP1/CP2/CP5/CP6	—	
	3.8	—		CP1/CP2/CP5/CP6	—
	1.85	—			CP3/CP4/CP7/CP8
1/3	9.7	CP1/CP2/CP5/CP6	—		
	5.6	—	CP1/CP2/CP5/CP6	—	
	4	—		CP1/CP2/CP5/CP6	—
	1.9	—			CP1/CP2/CP5/CP6
1/2	13.0	CP1/CP2/CP5/CP6	—		
	7.5	—	CP1/CP2/CP5/CP6	—	
	4.5	—		CP1/CP2/CP5/CP6	—
	2.1	—			CP3/CP4/CP7/CP8
3/4	15.2	CP1/CP2/CP5/CP6	—		
	8.7	—	CP1/CP2/CP5/CP6	—	
	5.3	—		CP1/CP2/CP5/CP6	—
	2.4	—			CP3/CP4/CP7/CP8
1	17.2	CP1/CP2/CP5/CP6	—		
	9.9	—	CP1/CP2/CP5/CP6	—	
	6.1	—		CP1/CP2/CP5/CP6	—
	2.5	—			CP3/CP4/CP7/CP8
1-1/2	19.2	CP1/CP2/CP5/CP6	—		
	10.7	—	CP1/CP2/CP5/CP6	—	
	8.0	—		CP1/CP2/CP5/CP6	—
	3.8	—			CP3/CP4/CP7/CP8
2	24.6	CP1/CP2/CP5/CP6	—		
	12.6	—	CP1/CP2/CP5/CP6	—	
	9.4	—		CP1/CP2/CP5/CP6	—
	4.4	—			CP3/CP4/CP7/CP8
3	14.8	—	CP1/CP2/CP5/CP6	—	
	11.5	—		CP1/CP2/CP5/CP6	—
	5.3	—			CP3/CP4/CP7/CP8
5	30.4	—	CP17/CP21/CP27/CP30	—	
	15.9	—		CP1/CP2/CP5/CP6	—
	7.7	—			CP3/CP4/CP7/CP8
7-1/2	40.4	—	CP17/CP21/CP27/CP30	—	
	24.4	—		CP1/CP2/CP5/CP6	—
	11.6	—			CP3/CP4/CP7/CP8
10	44.4	—	CP17/CP21/CP27/CP30	—	
	32.4	—		CP17/CP21/CP27/CP30	—
	14.1	—			CP3/CP4/CP7/CP8
15	45.5	—		CP17/CP21/CP27/CP30	—
	20.6	—			CP3/CP4/CP7/CP8
20	61.4	—		CP18/CP22/CP28/CP31	—
	27.6	—			CP3/CP4/CP7/CP8

ELECTRICAL COMPONENTS—CONTINUED

Item 1: PC Board

Item 1A: Replacement Light

Item 1B: Replacement Relay



Items 2 and 2A: Relay and Socket Base



Item 3: Time Delay Relay

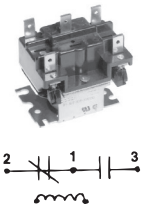


PN 89661



PN 89254

Item 4: Starter Relay



Item 5: Energy Cutoff Limit Device



Item 6: Limit Switch



Item 7: High Temperature Limit



Items 8 and 9: High Ambient Cutoff and Freezestat



Item 10: Firestat



Item 11: Low Air Pressure Switch



Item 12: High Air Pressure Switch



Item 14: Convenience Outlet Receptacle



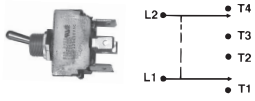
Item 15: Dirty Filter Pressure Switch



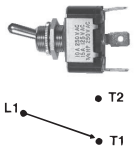
Item 16: Door Switch



Item 17: System Switch



Item 18: Toggle Switch



Item 19: Smoke Detector



Item 20: Fuseholder



Item 21: Fuse



Item 22: Terminal Block



Item 22A: Mounting Adapter



Item 23: Transformer



40VA



200–500 VA

Item 24: Thermostat



PN 255350



PN 220630

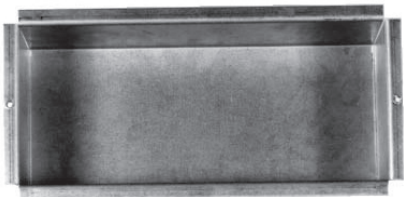


PN 220632

Item 25: Thermostat Guard



Item 26: Remote Console



Item 26A: Mounting Ring



Item 27: Disconnect Switch



Item 26B: Indicator Light



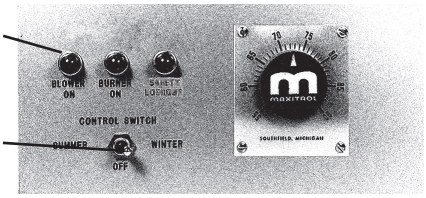


Figure 3. Individual Electrical Components (Refer to Table 3)

BLOWER MOTORS, CONTACTORS, AND STARTERS

NOTE:

- ***Blower Motors:*** **Blower motors are listed by type and horsepower. Highlighted blower motors listed in Table 7, Table 8, and Table 9 do not have internal overload protection and MUST be used with a starter contactor and starter overload. Blower motors that are not highlighted may be used with either the motor contactor or an optional starter contactor and starter overload. Two-speed motors (manufacturer's model MAGN) are listed in Table 10.**
- ***Motor Contactor:*** **The motor contactor (option AN2, PN 216386, manufacturer's model HCC-3XQO1CY, see Figure 4) is located in the electrical compartment.**
- ***Starter Contactors and Overloads:*** **Starter contactors and overloads (see Figure 4) are listed as follows:**
  - **(1) Starter contactors with 24V coils and overloads (option AN10) used on equipment manufactured after AUG 2003 (serial No. code BCI) are listed in Table 7, Table 8, and Table 9.**
  - **(2) Starter contactors with line voltage coils are listed in Table 11.**
  - **(3) Replacement coils for IEC starter contactors are listed by voltage in Table 12. When ordering a replacement IEC starter contactor or overload, check the manufacturer's number on both parts. If the numbers are different than that listed in Table 12, both components must be replaced.**

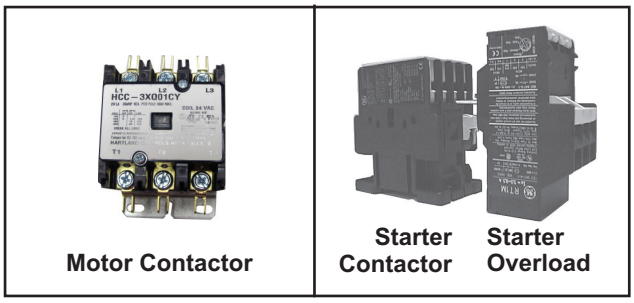


Figure 4. Motor Contactor, Starter Contactor, and Starter Overload

Table 7. Open-Type Blower Motors

Blower Motor										Starter Contactor		Starter Overload			
HP	Manufacturer's No.	Frame	FLA	Shaft Size (Inches)	V/PH	PN	SF*	PF*	EFF* (%)	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1/2	AO-BF2054	56Z	8.8	5/8	120/1	102627	1.2	—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-BF2054	56Z	5.1	5/8	208/1	102627	1.2	—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-BF2054	56Z	4.4	5/8	240/1	102627	1.2	—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H880	LA56	2.5	5/8	208/3	159183	1.3	—		CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-H880	LA56	3.0	5/8	240/3	159183	1.3	—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H880	LA56	1.5	5/8	480/3	159183	1.3	—		CL00A310T-1	151275	1.3	1.9	RTA1-H	151188
	AOS-H991	H56	0.9	5/8	575/3	202089	1.3	—		CL00A310T-1	151275	0.7	1.1	RTA1-F	151186
3/4	AO-312P629	B56	11.0	5/8	120/1	93548	1.3	—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-312P629	B56	6.3	5/8	208/1	93548	1.3	—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-312P629	B56	5.5	5/8	240/1	93548	1.3	—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-312P696	D56	2.9	5/8	208/3	36951	1.3	—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-312P696	D56	2.6	5/8	240/3	36951	1.3	—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-312P696	D56	1.3	5/8	480/3	36951	1.3	—		CL00A310T-1	151275	1.0	1.5	RTA1-G	151187
	AOS-H992	H56	1.0	5/8	575/3	202090	1.3	—		CL00A310T-1	151275	0.7	1.1	RTA1-F	151186

*SF = service factor, PF = power factor, EFF = efficiency.

BLOWER MOTORS, CONTACTORS, AND STARTERS—CONTINUED

Table 7. Open-Type Blower Motors—Continued

Blower Motor										Starter Contactor		Starter Overload			
HP	Manufacturer's No.	Frame	FLA	Shaft Size (Inches)	V/PH	PN	SF*	PF*	EFF* (%)	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1	AO-C523	H56	13.0	5/8	120/1	13685	1.3	—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-C523	H56	7.5	5/8	208/1	13685	1.3	—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-C523	H56	6.5	5/8	240/1	13685	1.3	—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-H882	F56	3.7	5/8	208/3	36580	1.2	—	79.0	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H882	F56	3.2	5/8	240/3	36580	1.2	—	79.0	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H882	F56	1.6	5/8	480/3	36580	1.2	—	79.0	CL00A310T-1	151275	1.3	1.9	RTA1-H	151188
	AO-E1006	N143T	1.1	7/8	575/3	158175	1.2	—	82.5	CL00A310T-1	151275	1.0	1.5	RTA1-G	151187
1.5	AO-C621	56	15.0	5/8	120/1	194202	1.2	86.4	77.2	CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-C621	56	7.8	5/8	208/1	194202	1.2	86.4	77.2	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-C621	56	7.5	5/8	240/1	194202	1.2	86.4	77.2	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-H884	UA56	5.6	5/8	208/3	115859	1.2	66.4	78.6	CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H884	UA56	5.0	5/8	240/3	115859	1.2	66.4	78.6	CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H884	UA56	2.8	5/8	480/3	115859	1.2	66.4	78.6	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1007	R145T	1.6	7/8	575/3	158162	1.2	85.3	84.0	CL00A310T-1	151275	1.3	1.9	RTA1-H	151188
2	AO-RB1204A	56H	24.6	5/8	120/1	202581	—			CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-RB1204A	56H	12.3	5/8	208/1	202581	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-RB1204A	56H	12.3	5/8	240/1	202581	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-H886	56HZ	7.0	7/8	208/3	159327	1.2	67.0	79.0	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-H886	56HZ	6.6	7/8	240/3	159327	1.2	67.0	79.0	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-H886	56HZ	3.5	7/8	480/3	159327	1.2	67.0	79.0	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1008	P145T	2.1	7/8	575/3	158176	1.2	86.0	84.0	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
3	AO-B735	L56	13.7	5/8	208/1	111560	1.2	—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-B735	L56	12.4	5/8	230/1	111560	1.2	—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-H845	P56HZ	9.0	7/8	208/3	159185	1.2	—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-H845	P56HZ	8.6	7/8	240/3	159185	1.2	—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-H845	P56HZ	4.3	7/8	480/3	159185	1.2	—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H954	N56HZ	3.6	7/8	575/3	120019	1.2	80.3	83.8	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
5	AO-V211	L184T	28.3	1-1/8	208/1	111562	—			CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-V211	L184T	25.6	1-1/8	240/1	111562	—			CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-196033	Y56HZ	13.4	7/8	208/3	113371	1.2	87.2	85.0	CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-196033	Y56HZ	13.2	7/8	240/3	113371	1.2	87.2	85.0	CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-196033	Y56HZ	6.6	7/8	480/3	113371	1.2	87.2	85.0	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-H956	Y56HZ	5.4	7/8	575/3	120020	1.2	85.9	85.3	CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
7.5	AO-V305	S215T	35.4	1-3/8	208/1	105828	—			CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-V305	S215T	32.0	1-3/8	230/1	105828	—			CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-E300	213T	22.5	1-3/8	208/3	105855	—			CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-E300	213T	19.4	1-3/8	240/3	105855	—			CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	AO-E300	213T	9.7	1-3/8	480/3	105855	—			CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-E324	S213T	7.8	1-3/8	575/3	158164	—			CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
10	AO-V303	S215T	42.0	1-3/8	208/1	105830	—			CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-V303	S215T	38.0	1-3/8	230/1	105830	—			CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-E301	215T	31.0	1-3/8	208/3	105858	—			CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-E301	215T	26.0	1-3/8	240/3	105858	—			CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-E301	215T	13.0	1-3/8	480/3	105858	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-E325	S215T	10.4	1-3/8	575/3	158163	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
15	B-FM2513T-8-F2	254T	43.1	1-5/8	208/3	142287	—			CL06A311M-1	203687	42.0	55.0	RTA2-G	151202
	BALD-EHFM2523T	254T	39.0	1-5/8	240/3	142288	—			CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	BALD-EHFM2523T	254T	19.5	1-5/8	480/3	142288	—			CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	B-EFM2513T-5-F2	254T	16.0	1-5/8	575/3	142289	—			CL02A310T-1	151277	14.5	18.0	RTA1-S	151196
20	B-FM2515T-8-F2	256T	58.7	1-5/8	208/3	142295	1.2	80.0	88.5	CL07A311M-1	203793	54.0	65.0	RTA2-H	151203
	BAL-FM2515T-F2	256T	53.0	1-5/8	240/3	142296	1.2	81.0	88.5	CL07A311M-1	203793	42.0	55.0	RTA2-G	151202
	BAL-FM2515T-F2	256T	26.5	1-5/8	480/3	142296	1.2	81.0	88.5	CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	B-FM2515T-5-F2	256T	21.2	1-5/8	575/3	142297	1.2	80.0	88.5	CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078

*SF = service factor, PF = power factor, EFF = efficiency.

Table 8. TEFC-Type Blower Motors

Blower Motor										Starter Contactor		Starter Overload			
HP	Manufacturer's No.	Frame	FLA	Shaft Size (Inches)	V/PH	PN	SF*	PF*	EFF* (%)	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1/2	AO-C613	J56	7.2	5/8	120/1	159184		—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-C613	J56	3.5	5/8	208/1	159184		—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-C613	J56	3.6	5/8	240/1	159184		—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H274	H56	2.3	5/8	208/3	16077	1.0	59.5	74.8	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-H274	H56	2.0	5/8	240/3	16077	1.0	59.5	74.8	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-H274	H56	1.0	5/8	480/3	16077	1.0	59.5	74.8	CL00A310T-1	151275	0.7	1.1	RTA1-F	151186
	AO-H276	J56	0.7	5/8	575/3	105568	1.2	76.4	77.0	CL00A310T-1	151275	0.7	1.1	RTA1-F	151186
3/4	AO-F353	F56	11.0	5/8	120/1	115860		—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-F353	F56	5.4	5/8	208/1	115860		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-F353	F56	5.5	5/8	240/1	159184		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H580	KA56	2.0	5/8	208/3	20371	1.0	73.5	81.1	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-H580	KA56	2.2	5/8	240/3	20371	1.0	73.5	81.1	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-H580	KA56	1.1	5/8	480/3	20371	1.0	73.5	81.1	CL00A310T-1	151275	1.0	1.5	RTA1-G	151187
	AO-H461	L56	0.8	5/8	575/3	105569	1.2	78.3	82.0	CL00A310T-1	151275	0.7	1.1	RTA1-F	151186
1	AO-159105	L56	12.0	5/8	120/1	174993		—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-159105	L56	6.2	5/8	208/1	174993		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-159105	L56	6.0	5/8	240/1	174993		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H524	J56	3.3	5/8	208/3	16080	1.0	74.4	80.2	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H524	J56	3.4	5/8	240/3	16080	1.0	74.4	80.2	CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-H524	J56	1.7	5/8	480/3	16080	1.0	74.4	80.2	CL00A310T-1	151275	1.3	1.9	RTA1-K	151188
	AO-H525	H56	1.4	5/8	575/3	105570	1.2	71.6	80.4	CL00A310T-1	151275	1.0	1.5	RTA1-H	151187
1.5	AO-311P402	TK56H	16.4	5/8	120/1	94347		—		CL02A310T-1	151277	14.5	18.0	RTA1-S	151196
	AO-311P402	TK56H	9.5	5/8	208/1	94347		—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-311P402	TK56H	8.2	5/8	240/1	94347		—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-H535	L56H	4.3	5/8	208/3	101286	1.0	80.9	82.4	CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H535	L56H	4.4	5/8	240/3	101286	1.0	80.9	82.4	CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-H535	L56H	2.2	5/8	480/3	101286	1.0	80.9	82.4	CL00A310T-1	151275	1.8	2.7	RTA1-J	151189
	AO-E127	M145T	1.6	7/8"	575/3	105665	1.2	85.7	84.0	CL00A310T-1	151275	1.3	1.9	RTA1-H	151188
2	AO-K200	F182T	24.0	1-1/8	120/1	105572		—		CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	L3516TM	56HZ	8.3	7/8	240/1	205881	1.2	99.0	78.0	CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-E166	145T	7.0	7/8	208/3	158165		—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	AO-E166	145T	5.8	7/8	240/3	158165		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-E166	145T	2.9	7/8	480/3	158165		—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E169	145T	2.3	7/8	575/3	158166		—		CL00A310T-1	151275	1.9	2.7	RTA1-J	151189
3	AO-K222	F184T	30.0	1-1/8	120/1	111564		—		CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-K222	F184T	15.0	1-1/8	240/1	111564		—		CL02A310T-1	151277	14.5	18.0	RTA1-S	151196
	B - M3559T	145T	7.9	7/8	208/3	159330		—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	B - M3559T	145T	7.2	7/8	240/3	159330		—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	B - M3559T	145T	3.6	7/8	480/3	159330		—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	B-M3559T-5	145T	3.0	7/8	575/3	111571		—		CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
5	AO-K223	F184T	20.2	1-1/8	240/1	111567		—		CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	AO-E241	184T	16.0	1-1/8	208/3	155048		—		CL02A310T-1	151277	14.5	18.0	RTA1-S	151196
	AO-E241	184T	12.0	1-1/8	240/3	155048		—		CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-E241	184T	6.0	1-1/8	480/3	155048		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-E273	184T	4.8	1-1/8	575/3	158170		—		CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
7.5	AO-K305	F215T	34.0	1-3/8	240/1	105842		—		CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-E356	213T	24.0	1-3/8	208/3	158171		—		CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-E356	213T	19.0	1-3/8	240/3	158171		—		CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	AO-E356	213T	9.5	1-3/8	480/3	158171		—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-E364	213T	7.6	1-3/8	575/3	158172		—		CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
10	AO-K313	215T	39.0	1-3/8	240/1	105846		—		CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	AO-E357	215T	30.0	1-3/8	208/3	158173		—		CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-E357	215T	26.0	1-3/8	240/3	158173		—		CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-E357	215T	13.0	1-3/8	480/3	158173		—		CL02A310T-1	151277	10.0	16.0	RTA1-P	151194
	AO-E365	215T	9.6	1-3/8	575/3	158174		—		CL00A310T-1	151275	8.0	12.0	RTA1-N	151193

*SF = service factor, PF = power factor, EFF = efficiency.

BLOWER MOTORS, CONTACTORS, AND STARTERS—CONTINUED

Table 8. TEFC-Type Blower Motors—Continued

Blower Motor										Starter Contactor		Starter Overload			
HP	Manufacturer's No.	Frame	FLA	Shaft Size (Inches)	V/PH	PN	SF*	PF*	EFF* (%)	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
15	BAL-FM2333T	254T	38.0	1-5/8	240/3	142443	1.2	82.0	90.2	CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	BAL-FM2333T	254T	19.0	1-5/8	480/3	142443	1.2	82.0	90.2	CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	B-FM2333-5	254T	15.0	1-5/8	575/3	142444	1.2	82.0	90.2	CL02A310T-1	151277	10.0	16.0	RTA1-P	151194
20	BAL-FM2334T	256T	52.0	1-5/8	240/3	142301	1.2	81.0	89.5	CL07A311M-1	203793	42.0	55.0	RTA2-G	151202
	BAL-FM2334T	256T	26.0	1-5/8	480/3	142301	1.2	81.0	89.5	CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	B-FM2334T-5	256T	20.6	1-5/8	575/3	142302	1.2	81.0	89.5	CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078

*SF = service factor, PF = power factor, EFF = efficiency.

Table 9. EE-Type (Premium Efficiency) Blower Motors

Blower Motor										Starter Contactor		Starter Overload			
HP	Manufacturer's No.	Frame	FLA	Shaft Size (Inches)	V/PH	PN	SF*	PF*	EFF* (%)	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1	AO-E103	N143T	3.1	7/8	208/3	105659	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1015	143T	2.7	7/8	240/3	159328	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1015	143T	1.4	7/8	480/3	159328	—			CL00A310T-1	151275	1.0	1.5	RTA1-G	151187
	AO-E1006	N143T	1.1	7/8	575/3	158175	—			CL00A310T-1	151275	1.0	1.5	RTA1-G	151187
1.5	AO-E104	P145T	4.5	7/8	208/3	105662	—			CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-E1016	145T	3.9	7/8	240/3	159329	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1016	145T	2.0	7/8	480/3	159329	—			CL00A310T-1	151275	1.9	2.7	RTA1-J	151189
	AO-E1007	R145T	1.6	7/8	575/3	158162	—			CL00A310T-1	151275	1.3	1.9	RTA1-H	151188
2	AO-E105	P145T	6.0	7/8	208/3	105664	—			CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-E1017	145T	5.8	7/8	240/3	159027	—			CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
	AO-E1017	145T	2.9	7/8	480/3	159027	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	AO-E1008	P145T	2.1	7/8	575/3	158176	—			CL00A310T-1	151275	1.9	2.7	RTA1-J	151189
3	B-35L405S489G3	145T	8.3	7/8	208/3	159186	—			CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	B-EM3158T	145T	7.4	7/8	240/3	159028	—			CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	B-EM3158T	145T	3.7	7/8	480/3	159028	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
	B-35L405S709G1	145T	3.0	7/8	575/3	159030	—			CL00A310T-1	151275	2.5	4.1	RTA1-K	151190
5	AO-E204	H182T	13.9	1-1/8	208/3	159029	—			CL02A310T-1	151277	10.0	16.0	RTA1-P	151194
	AO-E204	H182T	11.6	1-1/8	240/3	159029	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-E204	H182T	5.8	1-1/8	480/3	159029	—			CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
	BAL-M3613T-5	184T	4.8	1-1/8	575/3	111602	—			CL00A310T-1	151275	4.0	6.3	RTA1-L	151191
7.5	AO-E316	D213T	22.3	1-3/8	208/3	159331	—			CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-E317	D213T	19.4	1-3/8	240/3	159332	—			CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	AO-E317	D213T	9.7	1-3/8	480/3	159332	—			CL00A310T-1	151275	8.0	12.0	RTA1-N	151193
	AO-E324	S213T	7.8	1-3/8	575/3	158164	—			CL00A310T-1	151275	5.5	8.5	RTA1-M	151192
10	AO-E397	H215T	27.8	1-3/8	208/3	159334	—			CL04A310M-1	151279	25.0	32.0	RTA1-V	151199
	AO-E397	H215T	24.2	1-3/8	240/3	159334	—			CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	AO-E397	H215T	12.1	1-3/8	480/3	159334	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
	AO-E325	S215T	10.4	1-3/8	575/3	158163	—			CL01A310T-1	151276	10.0	16.0	RTA1-P	151194
15	B-EFM2513T-8	254T	41.5	1-5/8	208/3	142440	1.2	84.0	92.4	CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	B-EFM2513T	254T	36.0	1-5/8	240/3	142441	1.2	84.0	92.4	CL06A311M-1	203687	30.0	43.0	RTA2-E	151206
	B-EFM2513T	254T	18.0	1-5/8	480/3	142441	1.2	84.0	92.4	CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078
	B-EFM2513T-5-F2	254T	16.0	1-5/8	575/3	142289	1.2	84.0	92.4	CL02A310T-1	151277	10.0	16.0	RTA1-P	151194
20	C-E452-F2	S256T	57.0	1-5/8	208/3	159187	1.2	84.0	93.6	CL07A311M-1	203793	54.0	65.0	RTA2-H	151203
	B-EFM2515T	256T	48.0	1-5/8	240/3	142299	1.2	84.0	93.0	CL07A311M-1	203793	42.0	55.0	RTA2-G	151202
	B-EFM2515T	256T	24.0	1-5/8	480/3	142299	1.2	84.0	93.0	CL04A310M-1	151279	21.0	26.0	RTA1-U	151198
	B-EFM2515T-5	256T	19.2	1-5/8	575/3	142300	1.2	84.0	93.0	CL25A310T-1	1024071	17.5	22.0	RTA1-T	1024078

*SF = service factor, PF = power factor, EFF = efficiency.

Table 10. Two-Speed Blower Motors and Motor Starters

Motor								Starter
HP	Frame	Shaft Size (Inches)	Overload		Manufacturer's No.	PN	V/PH	PN
			High Speed	Low Speed				
1–0.44	M145T	7/8	3.8	2.4	M124	105641	208/3	222180
			3.4	2.2	M124	105641	240/3	114971
			1.7	1.1	M109	105642	480/3	114972
1.5–0.68			5.4	3.1	M125	105643	208/3	222181
			4.9	2.8	M125	105643	240/3	114973
			2.4	1.4	M104	105644	480/3	114974
2–0.88	S182T	1-1/8	6.5	4.2	M220	105645	208/3	222182
			5.9	3.8	M220	105645	240/3	114976
			3.4	2.1	M207	105646	480/3	114977
3–1.3	S184T		9.3	5.3	M221	105647	208/3	222183
			8.4	4.8	M221	105647	240/3	114978
			4.6	2.6	M208	105648	480/3	114979
5–2.2	S215T	1-3/8	17.2	11.3	M320	105870	208/3	222184
			15.5	10.2	M320	105870	240/3	114980
			7.1	4.8	M305	105871	480/3	114981
7.5–3.3	Y215T		21.6	13.6	M317	105872	208/3	222185
			19.5	12.3	M317	105872	240/3	114982
	D215T		10.0	6.0	M315	105873	480/3	114983
10–4.4	S256T	1-5/8	31.0	19.4	M421	105874	208/3	222186
			28.0	17.5	M421	105874	240/3	114984
			13.5	7.5	M413	105875	480/3	114985
15–6.7	S284T	1.9	47.0	22.0	M521	165726	208/3	165733
			54.0	21.0	M521	165726	230/3	165736
	S256T	1.6	20.0	10.5	M423	165727	460/3	165734
20–8.9	S286T	1.9	56.0	29.0	M522	165728	208/3	165735
			51.0	27.0	M522	165728	230/3	165736
			24.0	12.0	M504	165729	460/3	165737

NOTE: 690V NO auxiliary contacts = PN 115951. 690V NC auxiliary contacts = PN 115952.

Table 11. Starter Contactors with Line Voltage Coils

Open-Type Motor			Starter Contactor and Overloads Used on Units Manufactured *Before* SEP 2003					
			Contactor		Overload			
HP	V/PH	PN	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1/2	120/1	102627	CL00A310T-J	151146	8.00	12.00	RTA1-N	151193
	208/1	102627	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	240/1	102627	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	208/3	159183	CL00A310T-L	151150	1.90	2.70	RTA1-J	151189
	240/3	159183	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	159183	CL00A310T-U	151148	1.30	1.90	RTA1-H	151188
3/4	120/1	93548	CL01A310T-J	151151	10.00	16.00	RTA1-P	151194
	208/1	93548	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
	240/1	93548	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	208/3	36951	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
	240/3	36951	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	36951	CL00A310T-U	151148	1.00	1.50	RTA1-G	151187
1	120/1	13685	CL01A310T-J	151151	10.00	16.00	RTA1-P	151194
	208/1	13685	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
	240/1	13685	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	208/3	36580	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
	240/3	36580	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	36580	CL00A310T-U	151148	1.30	1.90	RTA1-H	151188
	575/3	158175	CL00A310T-Y	151149	1.00	1.50	RTA1-G	151187

Table 11. Starter Contactors with Line Voltage Coils—Continued

Open-Type Motor			Starter Contactor and Overloads Used on Units Manufactured *Before* SEP 2003					
			Contactor		Overload			
HP	V/PH	PN	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1.5	120/1	194202	CL02A310T-J	151156	10.00	16.00	RTA1-P	151194
	208/1	194202	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
	240/1	194202	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	208/3	115859	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	240/3	115859	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	480/3	115859	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	158162	CL00A310T-Y	151149	1.30	1.90	RTA1-H	151188
2	120/1	202581	CL25A310T-J	1024072	17.50	22.00	RTA1-T	1024078
	208/1	202581	CL01A310T-L	151155	8.00	12.00	RTA1-N	151193
	240/1	202581	CL01A310T-S	151152	8.00	12.00	RTA1-N	151193
	208/3	159327	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
	240/3	159327	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	480/3	159327	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	158176	CL00A310T-Y	151149	1.90	2.70	RTA1-J	151189
3	208/1	111560	CL02A310T-L	151159	10.00	16.00	RTA1-P	151194
	240/1	111560	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
	208/3	159185	CL00A310T-L	151150	8.00	12.00	RTA1-N	151193
	240/3	159185	CL00A310T-S	151147	8.00	12.00	RTA1-N	151193
	480/3	159185	CL00A310T-U	151148	4.00	6.30	RTA1-L	151191
	575/3	120019	CL00A310T-Y	151149	2.50	4.10	RTA1-K	151190
	208/3	152002	—		8.00	12.00	RTA1-N	151193
	240/3	152002			5.50	8.50	RTA1-M	151192
	480/3	152002			2.50	4.10	RTA1-K	151190
5	208/1	111562	CL04A310M-L	151169	25.00	32.00	RTA1-V	151199
	240/1	111562	CL04A310M-S	151166	25.00	32.00	RTA1-V	151199
	208/3	113371	CL01A310T-L	151155	10.00	16.00	RTA1-P	151194
	240/3	113371	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
	480/3	113371	CL00A310T-U	151148	5.50	8.50	RTA1-M	151192
	575/3	120020	CL00A310T-Y	151149	4.00	6.30	RTA1-L	151191
7.5	208/1	105828	CL06A311M-L	151173	30.00	43.00	RTA2-E	151206
	240/1	105828	CL45A310M-S	151170	25.00	32.00	RTA1-V	151199
	208/3	105855	CL25A310T-L	1024076	21.00	26.00	RTA1-U	1024078
	240/3	105855	CL25A310T-S	1024073	17.50	22.00	RTA1-T	1024078
	480/3	105855	CL01A310T-U	151153	8.00	12.00	RTA1-N	151193
	575/3	158164	CL00A310T-Y	151149	5.50	8.50	RTA1-M	151192
10	208/1	105830	CL06A311M-L	151173	30.00	43.00	RTA2-E	151206
	240/1	105830	CL06A311M-S	151172	30.00	43.00	RTA2-E	151206
	208/3	105857	CL04A310M-L	151169	25.00	32.00	RTA1-V	151199
	240/3	105858	CL04A310M-S	151166	25.00	32.00	RTA1-V	151199
	480/3	105858	CL01A310T-U	151153	10.00	16.00	RTA1-P	151194
	575/3	158163	CL01A310T-Y	151154	10.00	16.00	RTA1-P	151194
15	208/3	142287	CL06A311M-L	151173	42.00	55.00	RTA2-G	151202
	240/3	142288	CL06A311M-S	151172	30.00	43.00	RTA2-E	151206
	480/3	142288	CL25A310T-U	1024074	17.50	22.00	RTA1-T	1024078
	575/3	142289	CL02A310T-Y	151158	14.50	18.00	RTA1-S	151196
20	208/3	142295	CL07A311M-L	151176	54.00	65.00	RTA2-H	151203
	240/3	142296	CL07A311M-S	151175	42.00	55.00	RTA2-G	151202
	480/3	142296	CL04A310M-U	151167	25.00	32.00	RTA1-V	151199
	575/3	142297	CL25A310T-Y	1024075	17.50	22.00	RTA1-T	1024078

Table 11. Starter Contactors with Line Voltage Coils—Continued

TEFC-Type Motors			Starter Contactor and Overloads Used on Units Manufactured *Before* SEP 2003					
			Contactor		Overload			
HP	V/PH	PN	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1/2	120/1	159184	CL00A310T-J	151146	5.50	8.50	RTA1-M	151192
	208/1	159184	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
	240/1	159184	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	208/3	16077	CL00A310T-L	151150	1.90	2.70	RTA1-J	151189
	240/3	16077	CL00A310T-S	151147	1.90	2.70	RTA1-J	151189
	480/3	16077	CL00A310T-U	151148	0.65	1.10	RTA1-F	151186
	575/3	105568	CL00A310T-Y	151149	0.65	0.90	RTA1-F	151186
3/4	115860	1	CL01A310T-J	151151	10.00	16.00	RTA1-P	151194
	115860	1	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	115860	1	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	20371	3	CL00A310T-L	151150	1.90	2.70	RTA1-J	151189
	20371	3	CL00A310T-S	151147	1.90	2.70	RTA1-J	151189
	20371	3	CL00A310T-U	151148	1.00	1.50	RTA1-G	151187
	105569	3	CL00A310T-Y	151149	0.65	1.10	RTA1-F	151186
TEFC-Type Motors			Starter Contactor and Overloads Used on Units Manufactured *Before* FEB 2003					
			Contactor		Overload			
HP	V/PH	PN	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
1	120/1	174993	CL01A310T-J	151151	10.00	16.00	RTA1-P	151194
	208/1	174993	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	240/1	174993	CL00A310T-S	151147	5.50	8.50	RTA1-M	151192
	208/3	16080	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
	240/3	16080	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	16080	CL00A310T-U	151148	1.30	1.90	RTA1-H	151188
	575/3	105570	CL00A310T-Y	151149	1.00	1.50	RTA1-G	151187
1.5	120/1	94347	CL02A310T-J	151156	14.50	18.00	RTA1-S	151196
	208/1	94347	CL00A310T-L	151150	8.00	12.00	RTA1-N	151193
	240/1	94347	CL00A310T-S	151147	8.00	12.00	RTA1-N	151193
	208/3	101286	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	240/3	101286	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	480/3	101286	CL00A310T-U	151148	1.90	2.70	RTA1-J	151189
	575/3	105665	CL00A310T-Y	151149	1.30	1.90	RTA1-H	151188
2	120/1	105572	CL04A310M-J	151165	21.00	26.00	RTA1-U	151198
	240/1	105572	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
	208/3	158165	CL00A310T-L	151150	5.50	8.50	RTA1-M	151192
	240/3	158165	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	480/3	158165	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	158166	CL00A310T-Y	151149	1.90	2.70	RTA1-J	151189
3	120/1	111564	CL04A310M-J	151165	25.00	32.00	RTA1-V	151199
	240/1	111564	CL02A310T-S	151157	10.00	16.00	RTA1-P	151194
	208/3	159330	CL00A310T-L	151150	5.50	8.50	RTA1-N	151192
	240/3	159330	CL00A310T-S	151147	5.50	8.50	RTA1-N	151192
	480/3	159330	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	111571	CL00A310T-Y	151149	2.50	4.10	RTA1-K	151190
5	240/1	111567	CL04A310M-S	151166	17.50	22.00	RTA1-T	1024078
	208/3	155048	CL01A310T-L	151155	14.50	18.00	RTA1-S	151196
	240/3	155048	CL01A310T-S	151152	10.00	16.00	RTA1-P	151194
	480/3	155048	CL00A310T-U	151148	4.00	6.30	RTA1-L	151191
	575/3	158170	CL00A310T-Y	151149	4.00	6.30	RTA1-L	151191
7.5	240/1	105842	CL45A310M-S	151170	30.00	40.00	RTA1-W	151200
	208/3	158171	CL04A310M-L	151169	21.00	26.00	RTA1-U	151198
	240/3	158171	CL25A310T-S	1024073	17.50	22.00	RTA1-T	1024078
	480/3	158171	CL01A310T-U	151153	8.00	12.00	RTA1-N	151193
	575/3	158172	CL00A310T-Y	151149	5.50	8.50	RTA1-N	151192

Table 11. Starter Contactors with Line Voltage Coils—Continued

TEFC-Type Motors			Starter Contactor and Overloads Used on Units Manufactured *Before* FEB 2003					
			Contactor		Overload			
HP	V/PH	PN	Manufacturer's No.	PN	Min Amps	Max Amps	GE Model No.	PN
10	240/1	105846	CL06A311M-S	151172	30.00	43.00	RTA2-E	151206
	208/3	158173	CL04A310M-L	151169	25.00	32.00	RTA1-V	151199
	240/3	158173	CL04A310M-S	151166	21.00	26.00	RTA1-U	151198
	480/3	158173	CL01A310T-U	151153	10.00	16.00	RTA1-P	151194
	575/3	158174	CL01A310T-Y	151154	8.00	12.00	RTA1-N	151193
15	240/3	142443	CL06A311M-S	151172	30.00	43.00	RTA2-E	151206
	480/3	142443	CL25A310T-U	1024074	17.50	22.00	RTA1-T	1024078
	575/3	142444	CL02A310T-Y	151158	10.00	16.00	RTA1-P	151194
20	240/3	142301	CL07A311M-S	151175	42.00	55.00	RTA2-G	151202
	480/3	142301	CL04A310M-U	151167	25.00	32.00	RTA1-V	151199
	575/3	142302	CL25A310T-Y	1024075	17.50	22.00	RTA1-T	1024078
Energy-Efficient-Type Motor			**Starter Contactor and Overloads Used on Units Manufactured *Before* FEB 2003**					
			Contactor		**Overload**			
HP	**V/PH**	**PN**	**Manufacturer's No.**	**PN**	**Min Amps**	**Max Amps**	**GE Model No.**	**PN**
1	208/3	105659	CL00A310T-L	151150	2.50	4.10	RTA1-K	151190
	240/3	159328	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	159328	CL00A310T-U	151148	1.00	1.50	RTA1-G	151187
	575/3	158175	CL00A310T-Y	151149	1.00	1.50	RTA1-G	151187
1.5	208/3	105662	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	240/3	159329	CL00A310T-S	151147	2.50	4.10	RTA1-K	151190
	480/3	159329	CL00A310T-U	151148	1.90	2.70	RTA1-J	151189
	575/3	158162	CL00A310T-Y	151149	1.30	1.90	RTA1-H	151188
2	208/3	105664	CL00A310T-L	151150	4.00	6.30	RTA1-L	151191
	240/3	159027	CL00A310T-S	151147	4.00	6.30	RTA1-L	151191
	480/3	159027	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	158176	CL00A310T-Y	151149	1.90	2.70	RTA1-J	151189
3	208/3	159186	CL00A310T-L	151150	8.00	12.00	RTA1-N	151193
	240/3	159028	CL00A310T-S	151147	5.50	8.50	RTA1-N	151192
	480/3	159028	CL00A310T-U	151148	2.50	4.10	RTA1-K	151190
	575/3	159030	CL00A310T-Y	151149	2.50	4.10	RTA1-K	151190
5	208/3	159029	CL02A310T-L	151159	10.00	16.00	RTA1-P	151194
	240/3	159029	CL02A310T-S	151157	10.00	16.00	RTA1-P	151194
	480/3	159029	CL00A310T-U	151148	5.50	8.50	RTA1-M	151192
	575/3	111602	CL00A310T-Y	151149	4.00	6.30	RTA1-L	151191
7.5	208/3	159331	CL04A310M-L	151169	21.00	26.00	RTA1-U	151198
	240/3	159332	CL25A310T-S	1024073	17.50	22.00	RTA1-T	1024078
	480/3	159332	CL00A310T-U	151148	8.00	12.00	RTA1-N	151193
	575/3	158164	CL00A310T-Y	151149	5.50	8.50	RTA1-N	151192
10	208/3	159333	CL04A310M-L	151169	25.00	32.00	RTA1-V	151199
	240/3	159334	CL04A310M-S	151166	21.00	26.00	RTA1-U	151198
	480/3	159334	CL01A310T-U	151153	10.00	16.00	RTA1-P	151194
	575/3	158163	CL00A310T-Y	151149	10.00	16.00	RTA1-P	151194
15	208/3	142440	CL06A311M-L	151173	30.00	43.00	RTA2-E	151206
	240/1	142441	CL06A311M-S	151172	30.00	43.00	RTA2-E	151206
	480/3	142441	CL25A310T-U	1024074	17.50	22.00	RTA1-T	1024078
	575/3	142289	CL02A310T-Y	151158	10.00	16.00	RTA1-P	151194
20	208/3	159187	CL07A311M-L	151176	54.00	65.00	RTA2-H	151203
	240/3	142299	CL06A311M-S	151172	42.00	55.00	RTA2-G	151202
	480/3	142299	CL04A310M-U	151167	21.00	26.00	RTA1-U	151198
	575/3	142300	CL25A310T-Y	1024075	17.50	22.00	RTA1-T	1024078

Table 12. Replacement Coils by Voltage for IEC Starter Contactors						
Voltage	For Contactors with GE Model No. Beginning with CL00, CL01, CL02, or CL25		For Contactors with GE Model No. Beginning with CL04 or CL45		For Contactors with GE Model No. Beginning with CL06, CL07, CL08, or CL09	
	GE Model No.	PN	GE Model No.	PN	GE Model No.	PN
24	LB1A-C	151280	LB3A-C	151286	—	
120	LB1A-J	151281	LB3A-J	151287		
208	LB1A-L	151282	LB3A-L	151288	LB4A-L	151292
230	LB1A-S	151283	LB3A-S	151289	LB4A-S	151293
460	LB1A-U	151284	LB3A-U	151290	LB4A-U	151294
575	LB1A-Y	151285	LB3A-Y	151291	—	

MODULATING GAS CONTROLS

NOTE: IMPORTANT: When replacing a temperature sensor on a Maxitrol MV-9 system (option AG33), check the model No. on the sensor. PN 119617 or 194160 is used on units manufactured *after* JAN 1992. PN 87041 is used on units manufactured *before* FEB 1992. Sensors are not interchangeable—the sensor MUST match the amplifier. Conversely, when replacing the amplifier, it must match the sensor.

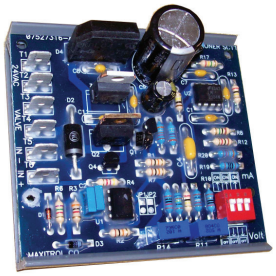
Item 1: Temperature Sensor



Item 2: Mixing Tube



Item 3: Signal Conditioner



Item 4: Amplifier



PN 148590



PN 133229



PN 268274 (shown without cover)

Item 5: Temperature Selector



PNs 86988, 101165, 87107, and 159285



PN 86990



PN 133230

Item 6: Overriding Thermostat



Figure 5. Modulating Gas Control Components (Refer to Table 13)

MODULATING GAS CONTROL COMPONENTS—CONTINUED

Table 13. Modulating Gas Control Components (See Figure 5)

Item No.	Component	Description	Gas Control Option	Serial No. Suffix	PN	Location
1	Sensor, temperature	Maxitrol series 14, #TS114	AG30, AG31	MV-7	90324	Discharge
		Maxitrol series 14A, #TS114A	AG32	MV-8	87106	
		Maxitrol series 14B, #TS114B	AG35	MV-8	123944	
		Maxitrol series 44, #TS144E, 120°F maximum	AG33	MV-9	119617	
		Maxitrol series 44, #TS144C, 140°F maximum			194160	
		Maxitrol series 94, #TS194	AG36	MV-B	133228	
2	Mixing tube	Maxitrol MTI-12	AG30, AG31, AG32, AG35, AG33, AG36	MV-7, MV-8, MV-8, MV-9, MV-B	90323	
3	Signal conditioner	Maxitrol, for computer control	AG37	MV-C	134170	Electrical control compartment
4	Amplifier	Maxitrol series 14 and 14A, #A1014R	AG30, AG31, AG32	MV-7, MV-8	148590	
		Replacement kit for PN 148590 (Model A1014L or A1014U) or PN 86976			268301	
		Maxitrol series 44, #A1044U	AG33	MV-9	268274	
		Replacement kit for PN 194159 (1044CL), PN 157915 (A1044EL), PN 119616 (A1044E), and PN 86989 (A1044)			268302	
		Maxitrol series 94, A1494	AG36	MV-B	133229	
5	Selector, temperature	Maxitrol series 14, #TD114, 55–90°F, with box (PN 156085), US	AG30, AG31	MV-7	86988	Remote
		Maxitrol series 14, #TD114, 50–75°F, Canada			101165	
		Maxitrol series 14A, #TD114A, 80–130°F	AG32	MV-8	87107	
		Maxitrol series 14B, #TD114B, 120–160°F	AG35	MV-8	159285	
		Maxitrol series 14B, #TD114B, 120–140°F			123943	
		Selectrastat, Maxitrol series 44, #T-244	AG33	MV-9	86990	Space
		Maxitrol series 94, #TD294E-609-0818, 120°F, for paint booth application	AG36	MV-B	133230	Remote
		Maxitrol series 94, #TD294E-609-0818, 160°F			159287	
6	Thermostat	Overriding, series 14, #T115	AG30, AG31, AG32	MV-7, MV-8	24857	Space

GAS REGULATORS, VALVES, AND PRESSURE SWITCHES

NOTE: The serial No. date code for units manuafactured *after* AUG 2003 is BCI (refer to Serial Numbers section).

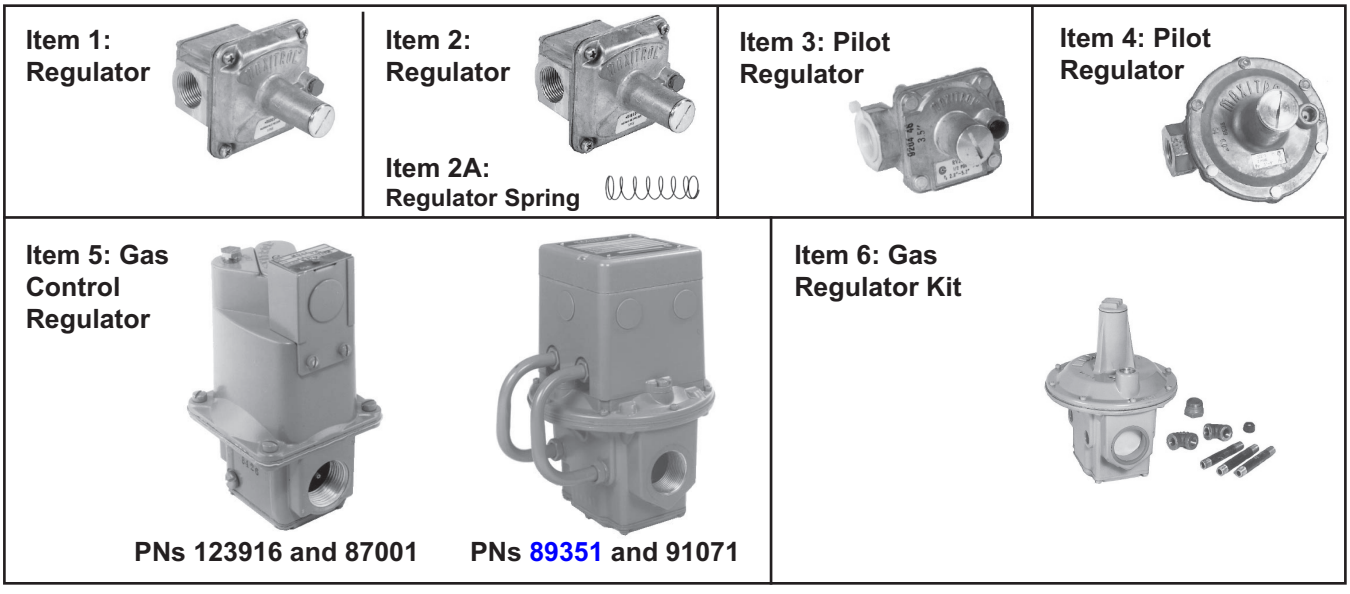
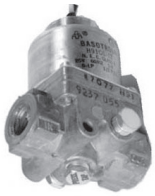


Figure 6. Gas Regulators (Refer to Table 14)

Item 7: Pilot Valve



Item 8: Pilot Valve



Item 9: Solenoid Valve



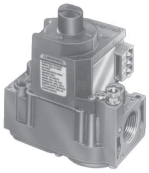
Item 10: Solenoid Valve



Item 11: Single-Stage Valve

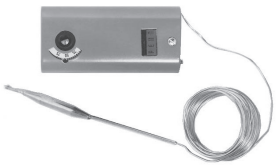


PN 121599

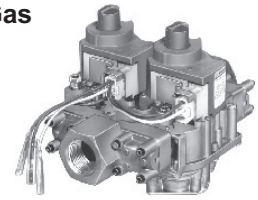


PN 222037

Item 11A: Air Controller



Item 12: Gas Valve



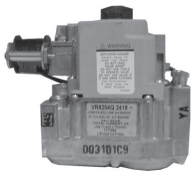
Item 13: Gas Valve



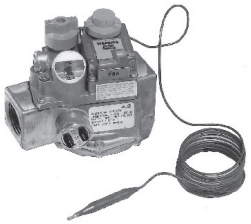
Item 13A: Ductstat



Item 14: Two-Stage Valve



Item 15: Modulation Valve





Item 16: Valve



Item 16A: Actuator

Item 17: Vent Valve



Item 18: Gas Valve with Adapter



Item 19: Pilot Gas Valve



Figure 7. Valves (Refer to Table 14)

Item 21: Pressure Switches



PN 204375



PN 204297



PN 93849



PN 93850

Item 21A: Vent Limiter for Pressure Switches



Figure 8. Pressure Switches (Refer to Table 14)

GAS REGULATORS, VALVES, AND PRESSURE SWITCHES—CONTINUED

Table 14. Gas Regulators, Valves, and Pressure Switches

Item No.	Component	Description	PN	Reference
1	Regulator	Pressure, 1-inch (RV53-88)	123950	Figure 6
2		1-inch manifold, 5 psi to 6 IN WC (Maxitrol R600S)	86964	
2A	Spring, regulator	Standard, brown, for propane gas, 1–3.5 IN WC pressure range	91787	
		Standard, cadmium, for natural gas, 3–6 IN WC pressure range (Maxitrol #R5310-36)	97196	
		Optional, orange, 4–8 IN WC pressure range (Maxitrol #R5310-48)	97351	
3	Pilot regulator	3/8-inch, natural gas (Maxitrol #RV20LT)	122844*	
		3/8-inch, propane (Maxitrol #RV20LT)	124021*	
4		3/8-inch (Maxitrol 325-03)	112644**	
5	Gas control regulator	3/4-inch (Maxitrol M611R)	123916	
		1-inch (Maxitrol M611 R-88)	87001	
		1-1/4-inch (Maxitrol MR212D)	89351	
		2-inch (Maxitrol MR212E)	91071	
6	Gas supply regulator kit	1- to 12-inch outlet pressure range (maximum 5 psi), includes Maxitrol 1-inch × 1-inch NPT regulator, same as option CZ1	124258	
		1- to 12-inch outlet pressure range (maximum 5 psi), includes Maxitrol 1-1/2-inch × 1-1/2-inch NPT regulator, same as option CZ2	124259	
7	Pilot valve	24V, 3/8-inch (G/C J/C #H91CG-12)	122845*	Figure 7
8		24V, 3/8-inch (M/H V8046C1030)	204769**	
9	Solenoid valve	3/4-inch, 24V (ASCO #K3A651U)	123604†	
		1-inch, 24V (ASCO #K3A661U)	146472†	
		1-1/4-inch, 24V (ASCO #K3A671U)	123605†	
10		1-inch (M/H V8295A-1032)	203860††	
11	Single-stage valve	1/2-inch, gas control option AG1	121599*	
		3/4-inch, gas control option AG1, replaced by kit (PN 222037)	96309*	
11A	Air controller	40–100°F, used as ductstat in option AG1	126170**	
12	Gas valve	Single-stage, 1-inch, natural gas or propane (M/H VR8404M5569)	159743**	
13		Two-stage, 1-inch, natural gas, gas control option AG3 (M/H V8944B-1126)	203866**	
13A	Ductstat	Two-stage, 60–110°F, gas control option AG3 (T678A1015)	41700**	
14	Two-stage valve	1/2-inch, gas control option AG3	177396*	
		3/4-inch, gas control option AG3	177397*	
15	Modulation valve	Mechanical, may be used as replacement for previously-used PN 100321 with addition of single-stage valve (PN 89398) in series	131455*	
16	Valve	1-inch, fluid power, natural gas or propane, serial No. valve code J2, J3, or J4 (Honeywell #V5055A1004)	86992*	
		1-1/4-inch, fluid power, natural gas or propane, serial No. valve code K2 or K4 (Honeywell #V5055A1012)	89356*	
16A	Actuator	120V, fluid operated (Honeywell #V4055A1007)	86993*	
17	Vent valve	3/4-inch (G/C #S262)	86996*	
		1-inch (G/C #S262A02N3FJ5)	91084*	
18	Gas valve	3/4-inch, with ball valve adapter with test port (PN 120169) (Watts B-6000-UL-TH)	122842	
		1-inch, with ball valve adapter with test port (PN 110758) (Watts B-6000-UL-TH)	159725	
		1-1/4-inch, with ball valve adapter with test port (PN 110759) (Watts B-6000-UL-TH)	159729	
19	Pilot gas valve	3/8-inch (Jomar 7204)	122843	
20	Vent valve	3/4-inch, 24V, NO	124010	—
21	Pressure switch	Low gas pressure, automatic reset (#C6097A1053)	204375**	Figure 8
		High gas pressure, manual reset (#C6097B1028)	204297**	
		Low gas pressure, automatic reset, setting: 50% of minimum inlet gas pressure as stated on unit rating plate (Antunes #RLGP-A)	93849*	
		High gas pressure, manual reset, setting: 125% of normal manifold gas pressure as stated on rating plate (Antunes #HGP-AMI)	93850*	
21A	Vent limiter	For pressure switches (Maxitrol #12A09)	123481	

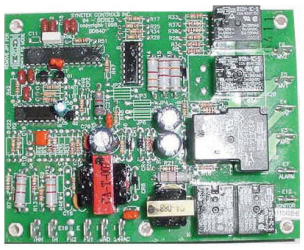
*Units manufactured prior to series 3 (***before*** SEP 2003).

Units manufactured ***after* AUG 2003.

†G/C valves were used ***before*** SEP 2003.

††Units manufactured ***after*** OCT 2012.

HOT SURFACE IGNITION COMPONENTS



Hot Surface Ignition Module

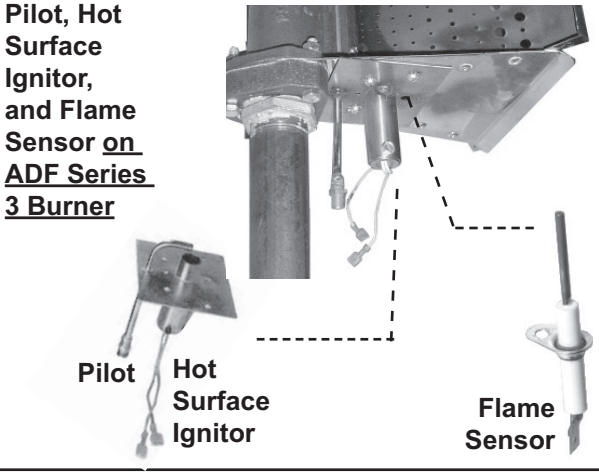


Figure 9. Hot Surface Ignition Components

Table 15. Hot Surface Ignition Components

Component		Description	PN
Hot surface ignition module		Single flame rod, serial No. ignition system code 82, located in electrical control compartment (Synetek IH11040B-C)	204376 (replaces 157953, serial No. code 72)
Pilot assembly (PN 120048) for units manufactured prior to series 3 (***before*** SEP 2003)	Pilot		122840
	Flame sensor	J/C #Y75MK-1D	134706
	Screw	#8-1/2-inch-long	38529
	Bushing	Pilot	121730
	Capscrew	Hex head, #10-32 x 3/8-inch-long	90167
	Hot surface ignitor	Norton #401E	121865
Pilot assembly for units manufactured ***after*** AUG 2003	Pilot		127910
	Hot surface ignitor	Norton #401E	121865
	Flame sensor	J/C #Y75MK-1D	134706

REPLACEMENT BURNERS

NOTE: Refer to the burner cleaning instructions in the operation/maintenance/service manual (form O-ADF/RDF, refer to Table 1) for information on how to access the burner for servicing.

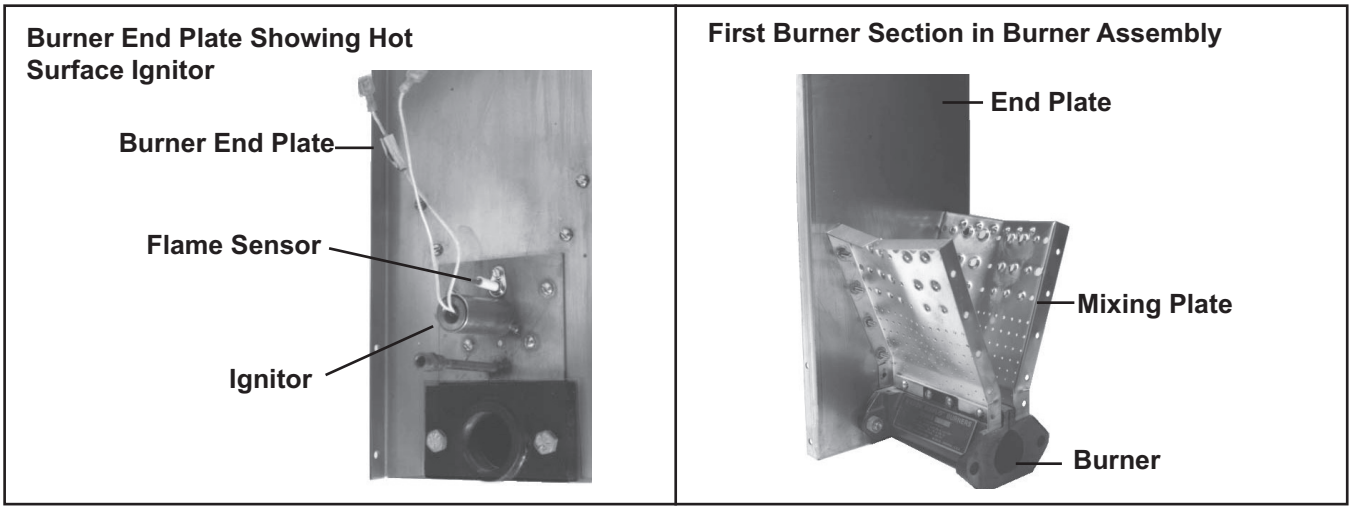


Figure 10. Burner Assembly for Units Manufactured *Before* SEP 2003 (Refer to Table 16)

Table 16. Replacement Burner Components for Units Manufactured *Before* SEP 2003		
Component	**Description**	**PN**
Applies to All Sizes of Maxon Burners and ADF/ADFH Units		
Burner mixing plate	6-inch straight section replacement plate—order No. of sections depending on length (Maxon PN 20580)	116104
Burner end plate	Quantity of two (2)	95473
Maxon Burners (Includes Burner, End Plates, and Mixing Plates) in Linear Configuration		
Replacement burner assembly	Option BL1, 250 MBH, 6 inches long	123405
	Option BL2, 500 MBH, 12 inches long	123665
	Option BL3, 750 MBH, 18 inches long	123684
	Option BL4, 1000 MBH, 24 inches long	123696
	Option BL5, 1250 MBH, 30 inches long	123700

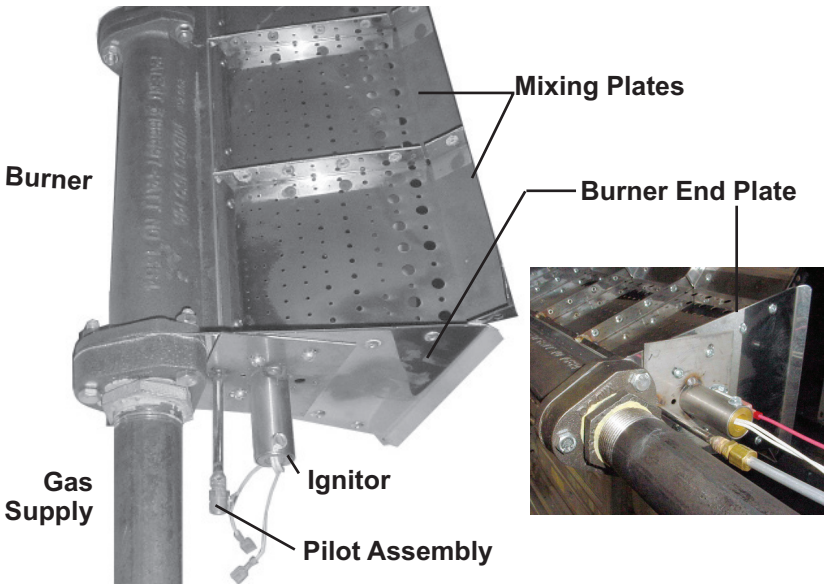
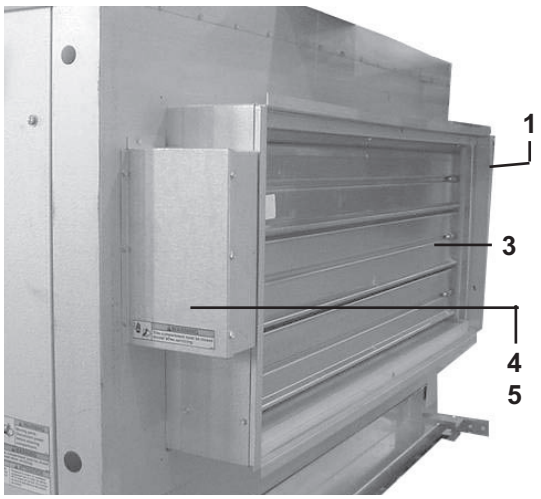


Figure 11. Burner Assembly for Units Manufactured *after* AUG 2003 (Refer to Table 17)

Table 17. Model ADF Series Burners				
Option	**Burner Length (Inches)**	**Configuration**	**MBH**	**PN**
BL1	6	Linear	250	203312
BL2	12		500	203313
BL3	18		750	203314
BL4	24		1000	203315
BL5	30		1250	203316
NOTE: Model series ADF units manufactured ***after*** AUG 2003 (serial No. date code BCI) use Midco HMA-700 series burners. The burner PN includes the burner, the mixing plates, and the end plate.				

NOTE: The damper motor is external to the unit cabinet.

Model ADF with Horizontal Discharge Damper (Option AQ4)



Item 9: Damper Motor



Figure 12. Discharge Damper Assembly and Motor (Refer to Table 18)

Table 18. Discharge Damper Components

Item No.	Component	Description	Unit Size			
			300	500	700	1200
			PN (Quantity)*			
1	Damper frame assembly	Horizontal discharge	176168	123159	176169	
2	Damper frame (not shown)	Vertical discharge, top/side	176117	121185	176117 (2)	121185 (2)
		Vertical discharge, bottom/side	176116	121186	176116 (2)	121186 (2)
3	Damper	Vertical discharge, 170 × 150	123192	—		
		Vertical discharge, 160 × 170	—	123193	—	
		Vertical discharge, 170 × 150	—		123192	—
		Vertical discharge, 160 × 170	—			123193
		Horizontal discharge, 170 × 150	123192	—		
		Horizontal discharge, 160 × 170	—	123193	—	
		Horizontal discharge, 19-5/8 × 46-5/8	—		124208	
4	Box	Damper motor, horizontal discharge, option AQ4	176111			
5	Cover	Damper motor box, horizontal discharge, option AQ4	176110			
6	Damper motor** (not shown)	Direct-coupled, horizontal discharge, option AQ4 (Johnson Controls M9206-BGB-201)	209351			
7	Replacement kit*** (not shown)	Damper motor, horizontal discharge, option AQ4	163197	163196	163195	
8	Auxiliary end switch (not shown)	Damper motor, horizontal discharge	124225			
9	Damper motor	Vertical discharge (M9208-BGC-3)	209351			
10	Mounting kit (not shown)	Damper motor, vertical discharge	209352			
11	Mounting bracket (not shown)	Damper, horizontal discharge	131149			
12	Damper motor plate assembly (not shown)	Horizontal discharge, with two (2) spot-weld screws	176121	124220	176120	
		Vertical discharge, with two (2) spot-weld screws	176121	124220	176121 (2)	124220 (2)
13	Damper shaft/coupler (not shown)	Assembly, vertical discharge	—		271791	123641
14	Shaft extension (not shown)	Damper shaft, vertical and horizontal discharge (Johnson Controls D9999-156)	123642			

*Quantity is one (1) unless otherwise indicated.

Direct replacement for units manufactured ***after* OCT 2005.

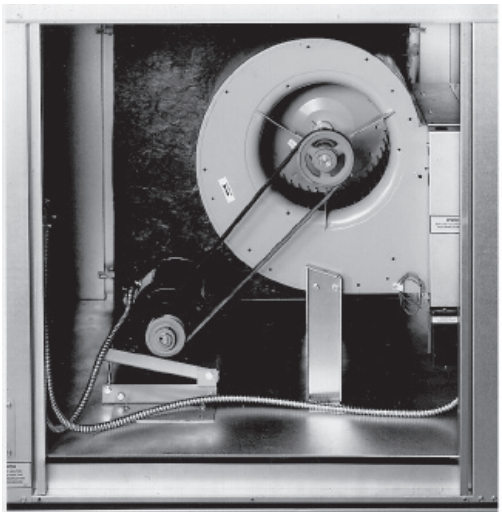
For direct-coupled motors on units manufactured ***before NOV 2005. Replaces motor PNs 124224 and 163101.

BLOWER/BLOWER MOTOR MOUNTING COMPONENTS

NOTE:

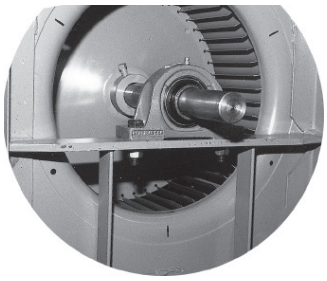
- **Limit controls are in the box to the right of the blower.**
- **Triangular bearing support assemblies are standard with 7-1/2–10 HP motors and optional with 1/2–5 HP motors.**

Model ADF (unit size 300) with horizontal discharge, class 1 blower, and 1/2–5 HP motor with motor mounting plate

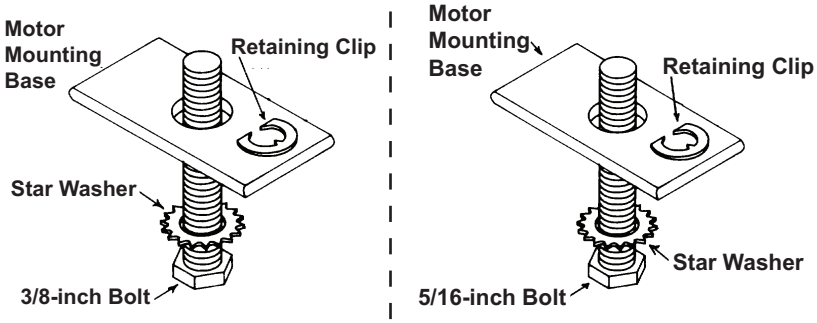


Blower/Motor Compartment

Bearing supports are part of blower for unit size 1200 units with 15-20HP motor



Motor Mounting Base Assembly for 7-1/2–20 HP Motor



Triangular Bearing Support Assembly



Figure 13. Blower/Blower Motor Mounting Components

Table 19. Blower/Blower Motor Mounting Components

Component	Description	Model (Unit Size)					
		ADF (300)	ADFH (300)	ADF (500)	ADFH (500)	ADF/ADFH (700)	ADF/ADFH (1200)
		PN (Quantity)*					
Adapter back assembly	Assembly, horizontal discharge	—				122822	
	Adapter back, top					122084	
	Adapter back, bottom					120391	
	Adapter back, center section					122083	
	Adapter back, left end					120039	
	Adapter back, right end					120040	
	Adapter back, left rear section					122095	160617
	Adapter back, right rear section					122085	160618
Support	Vertical blower, left	106299					
	Vertical blower, right	106943					

*Quantity is one (1) unless otherwise indicated.

Table 19. Blower/Blower Motor Mounting Components—Continued

Component	Description	Model (Unit Size)					
		ADF (300)	ADFH (300)	ADF (500)	ADFH (500)	ADF/ADFH (700)	ADF/ADFH (1200)
		PN (Quantity)*					
Blower**	1/2–5 HP motor, A12 × 12AC, includes wheel, housing, 1-inch shaft, and bearings/bearing support	1360		—			
	1/2–5 HP motor, A12 × 12AC, 1-inch, includes blower wheel and housing	—				112606 (2)	—
	1/2–5 HP motor, A15 × 11ACD, includes wheel, housing, 1-inch shaft, and bearings/bearing support	—		100658		—	
	1/2–5 HP motor, A15 × 11A, 1-3/16-inch, includes blower wheel and housing	—					14469 (2)
Blower***	1/2–5 HP motor, A12 × 12, 1-3/16-inch	123212		—		123212 (2)	—
	1/2–5 HP motor, A15 × 11A, 1-3/16-inch	—		14469		—	14469 (2)
	7-1/2 HP motor, A12 × 12, 1-3/16-inch	—	123212	—			
	7-1/2–10 HP motor, A12 × 12, 1-3/16-inch	—				123212 (2)	—
	7-1/2–10 HP motor, A15 × 11A, 1-3/16-inch	—			14469	—	14469 (2)
	15–20 HP motor, right , 1-7/16-inch, includes blower, housing, and bearing supports	—					106937
	15–20 HP motor, left, 1-7/16-inch, includes blower, housing, and bearing supports						106938
Bearing support**	1/2–5 HP motor	—				122826 (3)	24233 (3)
Bearing support***	1/2–5 HP motor	123213 (2)		—		(2)123213	—
	1/2–5 HP motor, right	—		112972		—	112972
	1/2–5 HP motor, left			112971			112971
	7-1/2–10 HP motor	—	123213 (2)	—		(2)123213	—
	7-1/2–10 HP motor, right	—			112972	—	112972
	7-1/2–10 HP motor, left				112971		112971
Triangular bearing support assembly	Assembly, right	112972					
	Assembly, left	112971					
	Pillowblock bearing, 1/2–5 HP motor, #SRC-16-1-1-inch**	10437 (2)				10437 (3)	—
	Pillowblock bearing, 1/2–5 HP motor, 1-3/16-inch**	—					14474 (3)
	Pillowblock bearing, 1/2–5 HP motor, 1-3/16-inch***	123216 (2)		112973 (2)		123216 (2)	112973 (2)
	Pillowblock bearing, 7-1/2–10 HP motor, 1-3/16-inch***	—	123216 (2)	—	112973 (2)		
	Pillowblock bearing, 15–20 HP motor, 1-7/16***	—					106942 (2)
	Grease fitting, 90-degree	195834 (2)					
	Capscrew, 1/2-13 × 2	111304 (4)					
	Nut, 1/2-13	111305 (4)					
	Lockwasher, 1/2	111306 (4)					
	Capscrew, 1/4-20	16246 (6)					
	Locknut, 1/4-20	10650 (6)					
Blower shaft**	1/2–5 HP motor, 1 × 19 inches	11303				—	
	1/2–5 HP motor, 1 × 50 inches	—				122827	—
	1/2–5 HP motor, 1-3/16 × 48 inches	—					13589
Blower shaft***	1/2–5 HP motor, 1-3/16 × 23 inches	122994				—	
	1/2–5 HP motor, 1-3/16 × 48 inches	—					13589
	1/2–5 HP motor, 1-3/16 × 50 inches	—				122796	—
	7-1/2–10 HP motor, 1-3/16 × 23 inches	—	122994	—	122994	—	
	7-1/2–10 HP motor, 1-3/16 × 48 inches	—					13589
	7-1/2–10 HP motor, 1-3/16 × 50 inches	—				122796	—
	15–20 HP motor, 1-7/16 × 53 inches	—					106941

*Quantity is one (1) unless otherwise indicated.

**Standard blower, class I (option A1).

***Class II blower includes wheel and housing (option A2).

BLOWER/BLOWER MOTOR MOUNTING COMPONENTS—CONTINUED

Table 19. Blower/Blower Motor Mounting Components—Continued

Component	Description	Model (Unit Size)					
		ADF (300)	ADFH (300)	ADF (500)	ADFH (500)	ADF/ADFH (700)	ADF/ADFH (1200)
		PN (Quantity)*					
Motor mounting plate assembly	Assembly, 1/2–5 HP motor	122828					
	Flat washer, 5/16	1087 (16)					
	Hex nut, Keps, 5/16-18	6554 (12)					
	Threaded rod, 5/16-18, C-135a zinc	12489 (2)					
	Mounting plate, blower motor	12578					
	Capscrew, 5/16 × 3/4	16247 (10)					
	Capscrew, 5/16 × 1-1/2	16248 (2)					
	Support, motor base	120684 (2)					
	Support, motor mounting plate, left	12576					
	Support, motor mounting plate, right	12577					
Motor mounting base assembly	Assembly, 7-1/2- to 20-HP motors	106295					
	Bolt, 3/8	32253					
	Star washer, 3/8	112571					
	Retaining clip, 3/8	112570					
	Bolt, 5/16	16247					
	Star washer, 5/16	112573					
	Retaining clip, 5/16	112572					

*Quantity is one (1) unless otherwise indicated.

DRIVE COMPONENTS

NOTE:

- **The service factor is 1.15 on all drives with 1/2–10 HP.**
- **The service factor is 1.25 on all drives with 15–20 HP.**
- **All drive assemblies are adjustable.**
- **Refer to Table 20 for the rpm range that corresponds to the drive option (AM).**
- **Refer to Table 21 for the horsepower and motor type that corresponds to the drive option (AM).**

Replacement drive components, which include the motor sheave, the blower sheave, and belts, are listed in Table 22 for currently-used 115V, 208V, 230V, and 460V open-type motors. Contact the Factory to verify replacement parts for the following other motors:

- **TEFC-type motors**
- **EE-type (premium efficiency) motors**
- **Two-speed motors**
- **575V motors**
- **Motors used on units manufactured *before* SEP 2003**

Table 20. Drive Revolutions per Minute (rpm)

Drive Option	rpm	Drive Option	rpm	Drive Option	rpm
AMA2	251–300	AM8	751–800	AM18	1251–1300
AMA3	301–350	AM9	801–850	AM19	1301–1350
AMA4	351–400	AM10	851–900	AM20	1351–1400
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		

Table 21. Motor Options by Motor Type and Horsepower

Motor Type							
Open (Dripproof)		Totally Enclosed (TEFC)		Premium Efficiency (EE)		Two-Speed	
Motor Option	HP	Motor Option	HP	Motor Option	HP	Option	HP
AL4	1/2	AL21	1/2	AL36	1	AL45	1
AL5	3/4	AL22	3/4	AL37	1-1/2	AL46	1-1/2
AL6	1	AL23	1	AL38	2	AL47	2
AL7	1-1/2	AL24	1-1/2	AL39	3	AL48	3
AL8	2	AL25	2	AL40	5		
AL9	3	AL26	3	AL41	7-1/2	AL49	5
AL10	5	AL27	5	AL42	10		
AL11	7-1/2	AL32	7-1/2	AL43	15	AL50	7-1/2
AL12	10	AL33	10				
AL15	15	AL34	15	AL44	20	AL51	10
AL16	20	AL35	20				

Table 22. Drive Components for Open-Type Motors

Model (Unit Size)	HP	Motor Option	Drive (AM) Option	Discharge*	Motor Sheave			Blower Sheave			Belt	
					PN	MFR's Model	Bore (Inches)	PN	MFR's Model	Bore (Inches)	PN (Quantity)**	MFR's Model
ADF (300)	1/2	AL4	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	88558	A50
				V	13580			18797			50472	A45
			9, 10, 11, 12, 13, 14, 15	H	13580			105841	AK46		92402	A59
				V	13580			105841			50470	A43
	3/4	AL5	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	88558	A50
				V	13580			18797			50472	A45
			9, 10, 11, 12, 13, 14, 15	H	13580			105481	AK46		92402	A59
				V	13580			105481			50470	A43
	1	AL6	9, 10, 11, 12, 13, 14, 15	H	13580	1VL34	5/8	105481	AK46	1	92402	A59
				V	13580			105481			50470	A43
	1.5	AL7	9, 10, 11	H	105476	1VL44	5/8	105484	AK71H†	1	16130	A53
				V	105476			105484			65403	A48
			12, 13, 14, 15, 16	H	105476			105481	AK46		88558	A50
				V	105476			105481			50473	A46
			17, 18	H	7962	1VL40		105481			65403	A48
				V	7962			105481			52966	A44
	2	AL8	9, 10, 11	H	106748	1VL40	7/8	18797	AK64	1	65404	A51
				V	106748			18797			50473	A46
			12, 13, 14, 15, 16, 17	H	106758	1VL44		105482	AK56		88558	A50
				V	106758			105482			50473	A46
			18, 19, 20, 21	H	37451	1VM50		105482			88558	A50
				V	37451			105482			50473	A46

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

†Use 1-inch bore H bushing (PN 92203).

Table 22. Drive Components for Open-Type Motors—Continued

Model (Unit Size)	HP	Motor Option	Drive (AM) Option	Discharge*	Motor Sheave			Blower Sheave			Belt	
					PN	MFR's Model	Bore (Inches)	PN	MFR's Model	Bore (Inches)	PN (Quantity)**	MFR's Model
ADF (300)	3	AL9	13, 14, 15, 16, 17	H	106748	1VL40	7/8	111609	AK99	1	16133	A56
				V							50513	A52
			18, 19, 20, 21, 22, 23, 24	H	37451	1VM50		16153	AK104		92402	A59
				V							16132	A55
	5	AL10	14, 15, 16, 17, 18	H	8973	1VM50	7/8	30621	2AK124	1	16137 (2)	A62
				V							50476 (2)	A58
			19, 20, 21, 22, 23, 24	H				113803	2BK110H†		92226 (2)	B58
				V							92224 (2)	B56
ADFH (300)	1/2	AL4	5, 6, 7, 8	V	13580	1VL34	5/8	18797	AK64	1	16558	A69
			9, 10, 11, 12, 13, 14, 15					105841	AK46		16139	A67
	3/4	AL5	5, 6, 7, 8	V	13580	1VL34	5/8	18797	AK64	1	16558	A69
			9, 10, 11, 12, 13, 14, 15					105841	AK46		16139	A67
	1	AL6	9, 10, 11, 12, 13, 14, 15	V	13580	1VL34	5/8	105841	AK46	1	16139	A67
	1.5	AL7	9, 10, 11	V	105476	1VL44	5/8	105484	AK71H†	1	80839	A72
			12, 13, 14, 15, 16				7/8	105482	AK56		124347	A71
			17, 18		7962	1VL40		105481	AK46		92408	A68
	2	AL8	9, 10, 11	V	106748	1VL40	7/8	18797	AK64	1	124347	A71
			12, 13, 14, 15, 16, 17		106758	1VL44		105482	AK56		124347	A71
			18, 19, 20, 21		37451	1VM50					80839	A72
	3	AL9	13, 14, 15, 16, 17	V	106748	1VL40	7/8	111609	AK99	1	92403	A76
			18, 19, 20, 21, 22, 23, 24		37451	1VM50		16153	AK104		92266	A79
	5	AL10	14, 15, 16, 17, 18	V	8973	2VP50	7/8	30621	2AK124	1	92218 (2)	A83
			19, 20, 21, 22, 23, 24					113803	2BK110H†		92271 (2)	B79
	7.5	AL11	20, 21, 22, 23, 24	V	114249	2VP71	1-3/8	89648	2BK80H††	1-3/16	92315 (2)	BX90
ADF (500)	1/2	AL4	2, 3, 4	H	13580	1VL34	5/8	19111	AK84	1	16130	A53
				V							16131	A54
			5, 6, 7, 8	H				18797	AK64		50475	A49
				V							65404	A51
	3/4	AL5	2, 3, 4	H	13580	1VL34	5/8	19111	AK84	1	16130	A53
				V							16131	A54
			5, 6, 7, 8	H				18797	AK64		50475	A49
				V							65404	A51
	1	AL6	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	50475	A49
				V							65404	A51
			9, 10, 11	H	7962	1VL40					88558	A50
				V							50513	A52
	1.5	AL7	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	50475	A49
				V							65404	A51
			9, 10, 11, 12	H	7962	1VL40		115716	AK59		88558	A50
				V							50513	A52

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

†Use 1-inch bore H bushing (PN 92203).

††Use 1-3/16-inch bore H bushing (PN 106260).

Table 22. Drive Components for Open-Type Motors—Continued

Model (Unit Size)	HP	Motor Option	Drive (AM) Option	Discharge*	Motor Sheave			Blower Sheave			Belt	
					PN	MFR's Model	Bore (Inches)	PN	MFR's Model	Bore (Inches)	PN (Quantity)**	MFR's Model
ADF (500)	2	AL8	7, 8, 9, 10, 11	H	106748	1VL40	5/8	18797	AK64	1	88558	A50
				V							50513	A52
			12, 13, 14, 15, 16	H	110125	1VL34	7/8	105481	AK46		65403	A48
				V							88558	A50
	3	AL9	7, 8, 9, 10, 11	H	106758	1VL44	7/8	113372	AK144	1	16139	A67
				V							16558	A69
			12, 13, 14, 15, 16, 17	H	106748	1VL40	7/8	111609	AK99		16133	A56
				V							50476	A58
	5	AL10	10, 11, 12, 13, 14, 15, 16	H	87500	2VP36	7/8	89649	2BK100H†	1	92224	B56
				V							92226	B58
			17, 18, 19, 20, 21, 22, 23	H	6599	2VP42	7/8	87504	2AK84		16131	A54
				V							16132	A55
ADFH (500)	1/2	AL4	2, 3, 4	V	13580	1VL34	5/8	19111	AK84	1	92266	A79
			5, 6, 7, 8					123761	AK64H†		92403	A76
	3/4	AL5	2, 3, 4	V	13580	1VL34	5/8	19111	AK84	1	92266	A79
			5, 6, 7, 8					123761	AK64H†		92403	A76
	1	AL6	5, 6, 7, 8	V	13580	1VL34	5/8	123761	AK64H†	1	92403	A76
			9, 10, 11		7962	1VL40						
	1.5	AL74	5, 6, 7, 8	V	13580	1VL34	5/8	123761	AK64H†	1	92403	A76
			9, 10, 11, 12		7962	1VL40		123762	AK59H†			
	2	AL8	7, 8, 9, 10, 11	V	106748	1VL40	7/8	123761	AK64H†	1	92403	A76
			12, 13, 14, 15, 16		110125	1VP34	7/8	123763	AK46H†		80839	A72
	3	AL9	8, 9, 10, 11	V	106758	1VL44	7/8	113372	AK144	1	124275	A93
			12, 13, 14, 15, 16, 17		106748	1VL40	7/8	123764	AK99H		92218	A83
	5	AL10	10, 11, 12, 13, 14, 15, 16	V	87500	2VP36	7/8	89649	2BK100H†	1	92274 (2)	BX81
			17, 18, 19, 20, 21, 22, 23		6599	2VP42	7/8	123765	2AK84H†		92266 (2)	A79
	7.5	AL11	AM 14, 15, 16	V	113802	2VP68	1-3/8	89649	2BK100H††	1-3/16	92319 (2)	BX97
			AM 17, 18, 19		16150	2VP62		89648	2BK80H††		92313 (2)	BX93
			AM 20, 21, 22, 23, 24		114249	2VP71	7/8	89648			92321 (2)	BX95
	10	AL12	AM 16, 17, 18, 19	V	113802	2VP68	1-3/8	113804	2BK90H††	1-3/16	92334 (2)	BX96
			AM 20, 21, 22, 23, 24		114249	2VP71	7/8	89648	2BK80H††		92321 (2)	BX95
ADF (700)	1	AL6	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	65404	A51
	1.5	AL7	5, 6, 7, 8	H	13580	1VL34	5/8	18797	AK64	1	65404	A51
			9, 10, 11, 12, 13, 14, 15					105481	AK46		65403	A48
	2	AL8	7, 8, 9, 10, 11	H	106748	1VL40	7/8	18797	AK64	1	50513	A52
			12, 13, 14, 15, 16		110125	1VP34		105481	AK46		65403	A48
	3	AL9	9, 10, 11, 12, 13	H	106758	1VL44	7/8	50520	AK134	1	16138	A63
			14, 15, 16, 17					16153	AK104		50476	A58
			18, 19, 20, 21, 22		106748	1VL40		19111	AK84		16131	A54

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

†Use 1-inch bore H bushing (PN 92203).

††Use 1-3/16-inch bore H bushing (PN 106260).

Table 22. Drive Components for Open-Type Motors—Continued

Model (Unit Size)	HP	Motor Option	Drive (AM) Option	Discharge*	Motor Sheave			Blower Sheave			Belt	
					PN	MFR's Model	Bore (Inches)	PN	MFR's Model	Bore (Inches)	PN (Quantity)**	MFR's Model
ADF (700)	5	AL10	9, 10, 11, 12, 13	H	87500	2VP36	7/8	7955	2AK104	1	16134 (2)	A57
			14, 15, 16, 17		6599	2VP42					50476 (2)	A58
			18, 19, 20, 21, 22, 23, 24			1VL40		87504	2AK84		16132 (2)	A55
	7.5	AL11	12, 13, 14, 15	H	106257	2VP60	1-3/8	16167	2BK90	1-3/16	92223 (2)	B54
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
	10	AL12	12, 13, 14, 15	H	106257	2VP60	1-3/8	16167	2BK90	1-3/16	92223 (2)	B54
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
	1	AL6	5, 6, 7, 8	V	13580	1VL34	5/8	123761	AK64H†	1	92218	A83
	1.5	AL7	5, 6, 7, 8	V	13580	1VL34	5/8	123761	AK64H†	1	92218	A83
			9, 10, 11, 12, 13, 14, 15					123763	AK46H†		92217	A81
	2	AL8	7, 8, 9, 10, 11	V	106748	1VL40	7/8	123761	AK64H†	1	92218	A83
			12, 13, 14, 15, 16		110125	1VL34	7/8	123763	AK46H†		92217	A81
	3	AL9	9, 10, 11, 12, 13	V	106758	1VL44	7/8	50520	AK134	1	124606	A97
			14, 15, 16, 17					16153	AK104		124607	A92
			18, 19, 20, 21, 22		106748	1VL40		19111	AK84		92265	A88
	5	AL10	9, 10, 11, 12, 13	V	87500	2VP36	7/8	113801	2AK104H†	1	124610 (2)	A91
			14, 15, 16, 17		6599	2VP42						
			18, 19, 20, 21, 22, 23, 24					123765	2AK84H†		92265 (2)	A88
	7.5	AL11	12, 13, 14, 15	V	106257	2VP60	1-3/8	16167	2BK90	1-3/16	92315 (2)	BX90
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
	10	AL12	12, 13, 14, 15	V	106257	2VP60	1-3/8	16167	2BK90	1-3/16	92315 (2)	BX90
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
ADF (1200)	1	AL6	2, 3, 4	H	13580	1VL34	5/8	19111	AK64	1	50476	A58
			5, 6, 7, 8, 9		7962	1VL40		124641	AK74H†		16134	A57
	1.5	AL7	3, 4, 5, 6, 7	H	13580	1VL34	5/8	105484	AK71H†	1	16133	A56
			8, 9, 10, 11		105476	1VL44		124641	AK74H†		50476	A58
	2	AL8	5, 6, 7, 8, 9	H	106748	1VL40	7/8	124641	AK74H†	1	16134	A57
			10, 11, 12, 13, 14					124642	BK60H†		112531	B55
	3	AL9	6, 7, 8, 9	H	106748	1VL40	7/8	113800	AK144H†	1	16558	A69
			10, 11, 12, 13		106758	1VL44		50520	AK134		92408	A68
			14, 15, 16, 17					16153	AK104		16138	A63
	5	AL10	7, 8, 9, 10, 11	H	87500	2VP36	7/8	114034	2AK124H†	1	114103 (2)	A65
			12, 13, 14, 15					89649	2BK100H†		7972 (2)	B60
			16, 17, 18, 19, 20		6599	2VP42					124654 (2)	B61

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

†Use 1-inch bore H bushing (PN 92203).

††Use 1-3/16-inch bore H bushing (PN 106260).

Table 22. Drive Components for Open-Type Motors—Continued

Model (Unit Size)	HP	Motor Option	Drive (AM) Option	Discharge*	Motor Sheave			Blower Sheave			Belt	
					PN	MFR's Model	Bore (Inches)	PN	MFR's Model	Bore (Inches)	PN (Quantity)**	MFR's Model
ADF (1200)	7.5	AL11	10, 11	H	110771	2VP65	1-3/8	113801	2AK104H††	1-3/16	16137 (2)	A62
			12, 13, 14, 15		106257	2VP60		16167	2BK90		16143 (2)	B59
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††		92226 (2)	B58
			20, 21, 22, 23, 24		114249	2VP71		89648				
	10	AL12	10, 11	H	110771	2VP65	1-3/8	113801	2AK104H††	1-3/16	16137 (2)	A62
			12, 13, 14, 15		106257	2VP60		16167	2BK90		16143 (2)	B59
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††		92226 (2)	B58
			20, 21, 22, 23, 24		114249	2VP71		89648				
	15	AL15	13, 14, 15, 16	H	89645	3MVP45B59	1-5/8	115723	3BK90H‡	1-7/16	7972 (3)	B60
			17, 18, 19, 20, 21, 22, 23, 24		89644	3MVP40B54		106262	3BK65H‡		92223 (3)	B54
	20	AL16	13, 14, 15, 16	H	89645	3MVP45B59	1-5/8	115723	3BK90H‡	1-7/16	7972 (3)	B60
			17, 18, 19, 20, 21, 22, 23, 24		89644	3MVP40B54		106262	3BK65H‡		92223 (32)	B54
	1	AL6	2, 3, 4	V	13580	1VL34	5/8	19111	AK64	1	124275	A93
			5, 6, 7, 8, 9		7962	1VL40		124641	AK74H†			
	1.5	AL7	3, 4, 5, 6, 7	V	13580	1VL34	5/8	105484	AK71H†	1	124664	A90
			8, 9, 10, 11		105476	1VL44		124641	AK74H†		124275	A93
	2	AL8	5, 6, 7, 8, 9	V	106748	1VL40	7/8	124641	AK74H†	1	124275	A93
			10, 11, 12, 13, 14					124642	BK60H†		92406	A89
	3	AL9	6, 7, 8, 9	V	106748	1VL40	7/8	113800	AK144H†	1	124667	A103
			10, 11, 12, 13		106758	1VL44		50520	AK134		124666	A101
			14, 15, 16, 17					16153	AK104		124606	A97
	5	AL10	7, 8, 9, 10, 11	V	87500	2VP36	7/8	114034	2AK124H†	1	124665 (2)	A99
			12, 13, 14, 15					89649	2BK100H†		92313 (2)	BX93
			16, 17, 18, 19, 20		6599	2VP42					92321 (2)	BX95
		AL27	7, 8, 9, 10, 11	V	7963	2VP42	1-1/8	89648	2BK80H†	1	124275 (2)	A93
			12, 13, 14, 15					124844	2AK59H†		115934 (2)	B89
			16, 17, 18, 19, 20					89649	2BK100H†		92321 (2)	BX95
	7.5	AL11	10, 11	V	110771	2VP65	1-3/8	113801	2AK104H††	1-3/16	124665 (2)	A99
			12, 13, 14, 15		106257	2VP60		16167	2BK90		92321 (2)	BX95
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
	10	AL12	10, 11	V	110771	2VP65	1-3/8	113801	2AK104H††	1-3/16	(2) 124665	A99
			12, 13, 14, 15		106257	2VP60		16167	2BK90		(2) 92321	BX95
			16, 17, 18, 19		110771	2VP65		89648	2BK80H††			
			20, 21, 22, 23, 24		114249	2VP71						
	15	AL15	13, 14, 15, 16	V	89645	3MVP45B59	1-5/8	115723	3BK90H††	1-7/16	(3) 92334	BX96
			17, 18, 19, 20, 21, 22, 23, 24		89644	3MVP40B54		106262	3BK65H††		(3) 92315	BX90
	20	AL16	13, 14, 15, 16	V	89645	3MVP45B59	1-5/8	115723	3BK90H††	1-7/16	(3) 92334	BX96
			17, 18, 19, 20, 21, 22, 23, 24		89644	3MVP40B54		106262	3BK65H††		(3) 92315	BX90

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

†Use 1-inch bore H bushing (PN 92203).

††Use 1-3/16-inch bore H bushing (PN 106260).

‡Use 1-7/16-inch bore H bushing (PN 89659).

CABINET COMPONENTS

NOTE: If other cabinet parts are required, contact the Factory Service Department.

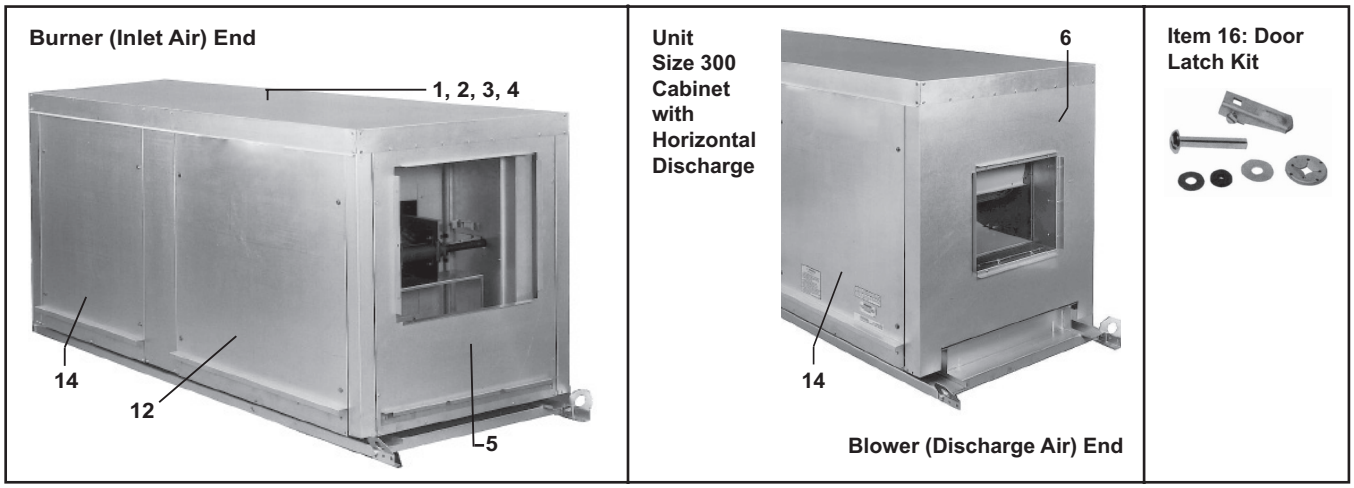


Figure 14. Cabinet Components (Refer to Table 23)

Table 23. Cabinet Components

Item No.	Component	Description	Unit Size			
			300	500	700	1200
			PN			
1	Cabinet top	One-piece	119490	—		
		Burner section	—	123420	123422	
		Blower section		123421		
2	Top filler	Joins top sections, with rubber gasket	—		115692	
3	Cabinet top insulation	Burner section	123025	123027	123029	—
		Blower section	123026	123028	149157 and 149158	
4	Top inner panel	Burner section	124770	124771	124773	
		Blower section	124769	124772	124737	
5	End panel	Burner end, assembly	111990	111285	—*	
5A	Support angle	Weatherhood	105011	105013		
6	Panel**	Blower (outer) end, horizontal discharge	120321	119604	110095	
		Blower (outer) end, vertical discharge, unit sizes 300 and 500	122875	123724	—	
	Panel†	End, single-wall insulated, vertical discharge	103618	103620	103622	
		End, double-wall insulated, vertical discharge	105548	105550	105552	
7	Panel (not shown)	Inner end, horizontal discharge	120320	119605	—	
		Inner end, vertical discharge (solid)	122874	123725		
8		Top front, horizontal discharge (discharge end)	—		105612	
9		Bottom front horizontal discharge (discharge end)			120042	
10	Corner post (not shown)	Control side, horizontal discharge			105603	
11		Non-control side, horizontal discharge			105604	
12	Discharge duct flange	Side, horizontal discharge	176119	123404	110093 (2)	
		Top/bottom, horizontal discharge			110092 (2)	
		Bottom, vertical discharge	176119	123404	176119 (2)	123404 (2)
			176118	123723	176118 (2)	123723 (2)
13	Door assembly (not shown)	Burner compartment, non-control side, single-wall insulated	122865			
		Burner compartment, non-control side, double-wall insulated	125854			
14	Door assembly	Burner/electrical compartment, control side	123031			
15	Door assembly (not shown)	Blower compartment, both sides, single-wall insulated	100347 (2)		122865 (2)	
		Blower compartment, both sides, double-wall insulated	104115 (2)		125854 (2)	
16	Door latch kit	All outer access doors	112974			

*No assembled replacement available. Contact the Distributor or Factory for replacement parts.

**ADF models only.

†Models ADF and ADFH (unit sizes 700 and 1200).

INLET AIR HOOD ASSEMBLIES

NOTE:

Table 24 lists the components for the following inlet air hood assemblies:

- **outside air inlet air hood (option AS2)**
- **outside air inlet air hood with filter cabinet (see Figure 15)**
- **inside air inlet air hood with filter cabinet**

Figure 16 shows the filter arrangements and blockoff plates

Table 25 lists the replacement filters for the inlet air hood assemblies.

Table 24. Inlet Air Hood Assemblies

Assembly	Component	Description	Unit Size			
			300	500	700	1200
			PN (Quantity)*			
Outside air inlet hood (option AS2)	Package	Air hood	106202	106204	106206	
	Panel	Left side	100216			
		Right side	100217			
		Top	100228	100230	100232	
		Bottom	100235	100237	100238	
	Louver assembly		103774	103776	103778	
Outside air inlet air hood with filter cabinet (see Figure 15)	Package, air hood with filter cabinet	With 1-inch disposable filters (option AS11)	123243	123244	123245	
		With 1-inch permanent filters (option AS6)	123231	123232	123233	
		With 2-inch permanent filters (option AS7)	123234	123235	123236	
		With 2-inch disposable filters (option AS10)	123240	123241	123242	
	Panel	Bottom	100235	100237	100239	
		Right side	119766	119766	119766	
		Left side	119767	119767	119767	
		Top	100228	100230	100232	
	Support	Bottom	123998 (2)	123998 (2)	123998 (2)	
	Corner	Left	119765	119765	119765	
		Right	119764	119764	119764	
	Louver assembly		103774	103776	103778	
	Door assembly		124626 (2)	124626 (2)	124626 (2)	
	Filter channel assembly		124620 (10)	124621 (10)	124622 (10)	
	Blockoff plate	Bottom, for channel	119753	119757	119760	
		Top, for channel	119754	119758	119761	
Inside air inlet air hood with filter cabinet	Package, air hood with filter cabinet	With 2-inch disposable filters (option AW13)	126121	126122	126123	
		With 1-inch permanent filters (option AW3)	126124	126125	126126	
		With 2-inch permanent filters (option AW6)	126130	126131	126132	
		With 2-inch disposable pleated filters (option AW15)	126136	126137	126138	
	Panel	Bottom	125139	125140	100239	
		Left side	125173	121574	125175	
	Door assembly		124626 (2)			
	Corner	Left	119765			
		Right	119764			
		Rear	87859 (2)			
	Filter channel assembly		124620 (10)	124621 (10)	124622 (10)	
	Blockoff plate	Bottom, for channel	119753	119757	119760	
		Top, for channel	119754	119758	119761	

*Quantity is one (1) unless otherwise indicated.



Figure 15. Outside Air Inlet Air Hood with Filter Cabinet

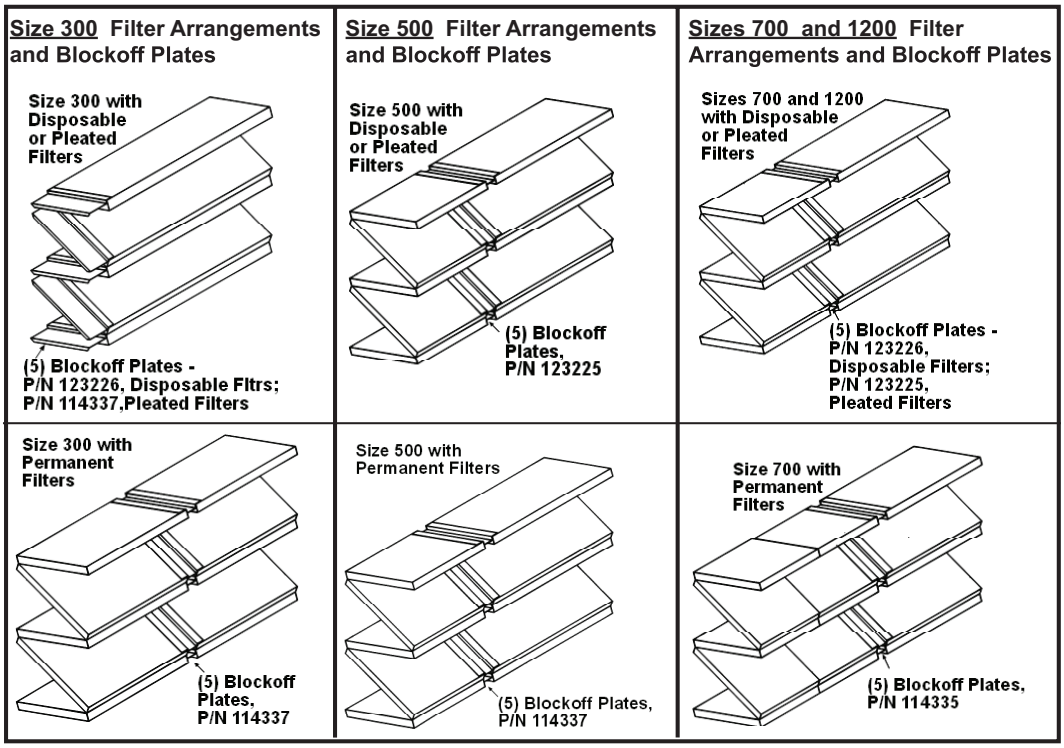


Figure 16. Filter Arrangements and Blockoff Plates

Table 25. Replacement Filters for Indoor and Outdoor Filter Cabinets

Type	Size (Inches)	Unit Size		
		300	500	700 and 1200
		PN (Quantity)		
Disposable	2 × 12 × 20	—	114317 (5)	—
	2 × 12 × 25		114318 (5)	
	2 × 12 × 30-5/8	114323 (5)	—	114323 (5)
Disposable, pleated	2 × 12 × 20	—	114319 (5)	—
	2 × 12 × 25		114320 (5)	
	2 × 12 × 32	114324 (5)	—	114324 (5)
Permanent	1 × 12 × 16	114334 (10)		114334 (10)
	1 × 12 × 20	—	114332 (5)	—
	1 × 12 × 26		114333 (5)	114335 (5)
	2 × 12 × 16	114325 (10)	—	114325 (10)
	2 × 12 × 20	—	114321 (5)	—
	2 × 12 × 26		114322 (5)	

NOTE: If replacing 1-inch disposable filters, replace with locally supplied filters in the size and type listed. Quantities listed by size and arrangements illustrated apply to both 1-inch and 2-inch filters.

ROOF CURBS

Table 26. Roof Curb Components

Discharge*	Roof Curb Package PN	Component	Model ADF			Model ADFH		
			Unit Size					
			300	500	700/1200	300	500	700/1200
			PN (Quantity)**					
H and V	104674	Curb side assembly	104649 (2)	—				
		Curb front/back assembly	104653					
	104676	Curb side assembly	—	104649 (2)	—			
		Curb front/back assembly		104655				
H	124029	Curb side assembly	—		124026 (2)	—		
		Curb front/back assembly			104657			
V	124033	Curb side assembly	—		124030 (2)	—		124030
		Curb front/back assembly			104657			104657
	124034	Curb side assembly	—			107258	—	
		Curb front/back assembly				104653		
	107252	Curb side assembly	—				107258	—
		Curb front/back assembly					104655	

Hardware		
Component	**Description**	**PN (Quantity)****
Capscrew	Hex head, 5/16-inch × 3/4-inch long	16247 (12)
Nut	Hex, 5/16-18-inch	1035 (12)
Screw	5/16-inch × 1-inch long	16243 (4)
Lockwasher	5/16-inch	13333 (16)
Foam sealant tape	1/4-inch × 1-1/4-inch × 50-feet long	66302

*H = horizontal. V = vertical.

**Quantity is one (1) unless otherwise indicated.

Specifications and illustrations subject to change without notice or incurring obligations.
Latest version of this manual is available at **www.reznorhvac.com**.
©2022 Nortek Global HVAC LLC, O'Fallon, MO. All rights reserved.
P-ADF (02-22) 270068-A