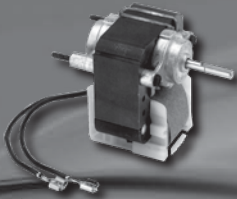


# Product Line

## C Frame

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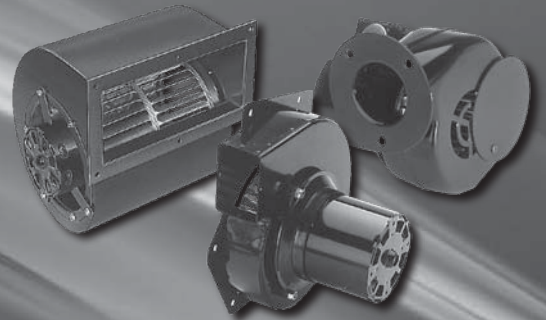
## 2-75W Unit Bearing Motors

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## Centrifugal Blowers

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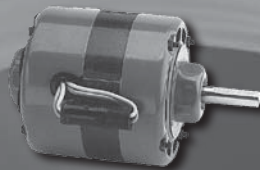
## 3<sup>3</sup>/<sub>8</sub>" Motors

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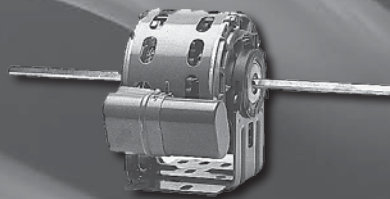
## 4<sup>5</sup>/<sub>16</sub>" Motors

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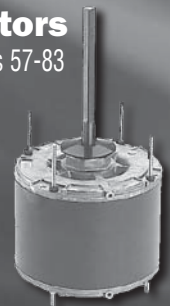
## 5" Motors

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## 5<sup>5</sup>/<sub>8</sub>" Motors

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## 6<sup>1</sup>/<sub>2</sub>" Motors

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## NEMA 48-449T Frame —

## Single and Three-phase ODP and Totally Enclosed Motors

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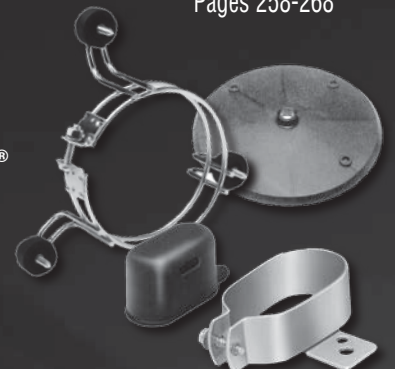
## Pool & Spa Motors

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# ACSmith®

U|P|P|C|O | Universal Electric®

# Century®

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Motors specially designed, tested and warranted to be **Corona-Free** for compatible inverter duty are marked in this catalog with a .



E-Plus®  
Speed Engineered®  
Inverter Duty Motor

## Why Specify Speed Engineered® Inverter Duty Motors?

Variable frequency drives (VFDs), while offering advantages of greater control and energy savings to commercial and industrial motor users, can also cause premature winding failure in motors not designed specifically for inverter duty. Now A. O. Smith engineers have developed a solid solution...Speed Engineered® Inverter Duty Motor.

Speed Engineered Inverter Duty Motors are specially designed and constructed to eliminate the destructive forces that can occur when motors are applied with drives. The Speed Engineered "Corona-Free" solution eliminates the causes of premature winding failure.

All Speed Engineered motors meet or exceed NEMA MG1-31 performance standards, in addition to carrying A. O. Smith's Speed Engineered warranty for inverter duty applications.

## The Causes of Premature Motor Failure

Research we conducted identified why motors can fail when used with variable frequency drives under certain operating conditions. The results were published in a white paper, *The Simple Truth About Motor/Drive Compatibility*, which is available from A. O. Smith. Our findings revealed that "corona" as well as other potential hazards, can materialize and eventually damage motors applied with a drive.

## What is Corona?

VFDs create high voltage pulses at the motor, especially when the motor and drive are separated by long power leads. Those high voltage pulses (or voltage spikes) develop voltage potential between adjacent conductors in the motor winding.

When the voltage generated in the air between the conductors is high enough, the air breaks down.

This breakdown is known as "corona." The discharge that is created forms ozone, which causes the motor's magnet wire insulation to disintegrate, causing premature failure.

This phenomenon has been around for a long time and affects a limited number of earlier vintage motor/drive applications. But with drives becoming more sophisticated, inverter switching rates increasing and the percentage of motors operating with drives growing rapidly, incidents of downtime are also growing, and corona is now getting a lot of attention in the motor/drive industry.

There are several techniques employed in the market to increase motor tolerance to corona. Although simpler and less costly, these practices are not always effective since corona is not cured...only bandaged. The only way to be sure the destructive efforts of corona will not compromise your motor/drive application is to eliminate corona altogether. This is easily accomplished by specifying A. O. Smith Speed Engineered motors on your next project.

## What Makes Corona-Free Speed Engineered® Motors Best For Motor-Drive Compatibility?

There are several solutions to the problem of motor insulation stress caused by inverters. Rather than just squelching the voltage overshoot which leads to corona, as mentioned earlier, the preferred method and the approach used by A. O. Smith is to design the motor to be corona free at expected peak voltage. We begin with a design premise of understanding the magnet wire corona inception voltage (CIV) and distribution of voltage in the motor.

From that, our design approach becomes simply to:

**Choose a winding layout that minimizes the proximity voltage differences and reliably positions insulation materials to improve dielectrics above the threshold of corona...**

You may recognize this as the design approach for any motor, regardless if it is line operated or driven by an inverter. The difference is that with an inverter you must anticipate a much higher peak voltage and the rapid rise times of these potentially harmful pulses.



**E-Plus® 3  
Speed Engineered®  
Inverter Duty Motor**

At A. O. Smith, we build a motor able to withstand voltage peaks 3.5 times what is stated on the motor nameplate. Therefore we design additional insulation (tape, sleeving, phase paper, etc.) and strategically locate this added insulation in a manner that will yield the necessary protection against the high voltage pulses that may occur between magnet wire strands. This approach yields the desired design integrity.

With the design for insulation and winding layout determined, the success of each motor now depends on placing the insulation properly during production. To provide final assurance for our customers, A. O. Smith uses a proprietary CIV tester that employs a unique procedure to detect and measure corona for each and every Speed Engineered motor we produce...before that motor leaves our factory!

## **Because Motor/Drive Applications Are so Varied, A. O. Smith Offers Three Distinct Families of Speed Engineered® Motors:**

**E-Plus®** motors, the industry's first high efficiency, energy-saving motor, meets 1997 EPACK standards. Now, E-Plus Motors also carry the protection of the Speed Engineered design and is warranted to offer the best performance available to inverter duty applications.

**E-Plus® 3** motors offer even heartier energy-efficient performance and savings, exceeding most utility conservation initiatives, in addition to meeting the 1997 EPACK standards. All E-Plus 3 motors are Speed Engineered rated for compatible inverter duty applications.

Both E-Plus® and E-Plus® 3 motors are available in a variety of application configurations including: variable or constant torque loads, PWM, sensorless or sensed vector and with limited or broad speed ranges.

Speed Engineered motors are rated for 4:1 speed ratio at constant torque or 6:1 at variable torque.



**Speed Plus® Motor**

In addition to being corona free, A. O. Smith **Speed Plus®** motors offer many additional benefits such as:

### **Wide Speed Ranges to fit your application:**

- 20:1 at constant torque, standard
- 1000:1 at constant torque with the addition of a blower kit

### **Standard Features provide operational flexibility and dependability:**

- Totally-enclosed severe duty
- All cast-iron construction
- VPI corona-free Class F insulation system
- F-1 mounted conduit box
- Dual foot holes
- Normally closed thermostats
- Encoder provisions

### **Highly Adaptable to address more specific process specifications:**

- Provisions for mounting a wide range of encoders:
  - Dynapar HS35
  - Avtron M285
  - Lakeshore SL56
  - BEI HS 35
- 120-volt A/C blower kits
- Drive end C-Face
- Drive end D-Flange
- Field convertible to F-2 conduit box location
- Brake kits

# Index of Footnotes

No.	Footnote Description	No.	Footnote Description	No.	Footnote Description
1	Item to be discontinued when stock is depleted	71	No hubs on either end	135	Shaft has no flat
2	Ball Bearing	72	No brake kit available	136	Shaft dim. = 9 X 1/2 X 8 1/2
3	Special OEM replacement motor	73	No base	137	Shaft dim. = 8-1/2 X 1/2 X 9 1/8
4	Supplied with lead and plug assembly	74	Nema design A available until current stock is depleted, then will become Nema design B	138	Shaft dim. = 9 X 1/2 X 7-1/2
5	\$ Energy efficient two value capacitor start, capacitor run motor	75	Mounting rings not included	139	Shaft dim. = 10-3/4 X 1/2 X 10-15/16
6	60/50 HZ	76	Motors shipped with thru bolts out shaft end - See photos above. May be reversed for vertical applications	140	Shaft diameter is 1/2, N=2
7	Resilient mounting rings included	77	Molex Terminal Plug	141	Shaft diameter is 1/2, N=1.94 with .04 deep flat
8	Nema design A	78	Moderate start torque	142	Service factor amps
9	Reversing plug	79	Leadless design	143	Service factor 1.00 under inverter power (sine wave power only 60 HZ) as shown above
10	Reversible. Quick connect terminals	80	Large capacitor/terminal box construction	144	Service factor 1.0 used on non-sinusoidal voltage wave forms
11	C Flange kit available	81	Includes base	145	Run capacitor mounted on motor shell
12	303 Stainless steel shaft	82	Horizontal mount only	146	Round frame
13	Six lead motor suitable for part winding start	83	Extended thru bolts - 5/8	147	Resilient mounting rings included for refrigeration applications
14	Totally enclosed non-ventilated	84	Energy efficient with split phase start, capacitor run with mounted capacitor	148	Replacement for Carrier HD52AK652
15	56HZ = 7/8 keyed X 2 5/16 shaft	85	Energy efficient \$ - capacitor start/run	149	Reconnect for separate speeds
16	\$ E-Plus energy efficient motor complying with EPact	86	Cord and plug with pull chain	150	Rated 50/60 HZ
17	Suitable for 208 volts @ 1.0 service factor	87	Class F insulation	151	Quick connect design bracket, auto overload protector
18	Includes 1/4 - 5/16 bushing	88	C & D flange kit adaptable, ODP, EMI Series 850000	152	Pump series: L
19	C & D flange kit available	89	60" leads	153	Pump series: C
20	\$ Energy efficient capacitor start, capacitor run Conservationist motor	90	50 degree C ambient	154	Previous stock numbers with X suffix are the same as current models
21	Terminal in bracket construction	91	5/8 extended thru bolts, 1 7/8 shaft length and 1/2 shaft dia.	155	Polaris Vac-sweep (shaft adapter not required)
22	3 thru bolts, 4.42 dia. Bolt circle	92	48/56 FR = 1/2 X 1 1/2 shaft with 5/8 shaft adapter - 48/56 slotted 3 height base	156	Open shaft end bracket
23	Suitable for 200/400 volt and 50 HZ	93	36" cord	157	Open construction
24	Mounting accessories packaged with motor	94	30" leads (minimum)	158	Open motor construction, overload protector mounted at 12 O'clock
25	Has hex mounting hub on both ends for cradle base mounting	95	3/8 flattened shaft	159	Open dripproof
26	Extended thru bolts, shaft end only	96	2 thru bolts, 4.42 dia. Bolt circle	160	Non-reversible, connected for CW facing end opposite shaft
27	Extended thru bolts, both ends	97	182T and 184T mounting holes, 4.5 shaft height	161	No side bosses
28	Blower kit adaptable, TEFC	98	1/2 hub on shaft end and slinger	162	No resilient rings. 12 leads with Molex terminal
29	60 degree C ambient	99	1/2 extended thru bolts, shaft end	163	No keyway, double flat
30	56,140 frame combination base (12 mounting holes)	100	1/2 diameter shaft	164	No hub on lead end end frame
31	40 degree C ambient	101	1.5 service factor	165	No extended thru bolts
32	24" leads (minimum)	102	1.15 service factor	166	No conduit box
33	Roller bearings	103	When using U. E. base, add (2) 1221A adapter rings to EACH mounting ring	167	New Quad-Plus model - removable base (RMOV), vertical shaft up or down and steel frame construction
34	Rigid base	104	Vertical mount	168	Nema 42/48 C-face, 1/2 diameter keyed shaft, 1 5/16 long
35	Quick connect design bracket	105	Use with 1805A or 2099A bracket	169	Motors produced before June, 2003 are E+
36	Lug mount	106	Use 4MFD/370V capacitor	170	Motors may be rewired to run CW
37	Lead reversible, no plug	107	Up-rated - low service factor	171	Motor is thermally protected
38	Includes conduit box, mounting screws, gasket, shipped detached	108	Two-speed motor	172	Motor is center mounted
39	Gasketed conduit box	109	Two side bosses	173	Motor has 4 studs
40	Four mounting holes in shell	110	Two mounting holes in each bracket for a 9 and for a 10.18 bolt circle	174	Motor fits torque mount
41	Extended thru bolts, lead end only	111	Totally enclosed version of OCC1026	175	Molex lead connection plug, 12 long leads
42	Eight mounting holes in shell	112	Totally enclosed fan cooled	176	Moisture proof stator
43	Class A insulation	113	Totally enclosed	177	Meets the requirements of the energy policy act of 1992
44	CCWLE rotation only	114	Threaded shaft with Acme threads	178	Low speed 1/2 HP
45	Capacitor start	115	This motor is rated for operation on 60 or 50 HZ power, full load amps listed at 60 HZ	179	Low amps
46	Adapt-a-Lug motors (See lugs)	116	Temperature sensitive thermostat with two leads for connection to external control	180	Low amp replacement for a variety of OEM Special and SPL 5 horsepower requirements
47	3/8 diameter shaft	117	TEAO gasketed conduit box	181	Loose lead construction
48	1.0 Service factor at 50 HZ	118	TEAO	182	Locked bearing on drive end
49	1.0 Service factor	119	Suitable replacement for Aaon	183	Lifting provisions
50	Use with 5MFD/370V @ 230 volt, 7.5MFD/370 volt @ 208 volt	120	Suitable replacement for 1/12 HP and 1/10 HP	184	Lead exit is on shaft end
51	Use downsize 250 Frame C & D flange kits (D-flange kit part # 800289-01, C-flange kit part # 800288-01)	121	Stronger 3/4 HP required for some applications	185	Items with Universal and A. O. Smith stock numbers and same specifications are identical. The A. O. Smith stock numbers will be discontinued when stock is depleted.
52	Two-speed connection: white-common, red-low, black-high	122	Stock number 91 has a stainless steel shaft and 20 leads for use on ice machines	186	Item to be discontinued when stock is depleted. Discontinued items available form Graham Transmission, Inc.
53	Twelve lead, wye delta	123	Stock no. 684 BA dimension was 4, motors built after 4/98 will have a BA dim. Of 3 3/4	187	Includes mounting bracket and shaft bushing
54	Triple build wire for greater high voltage insulation	124	Stainless steel shaft	188	Includes split bushing and key for 5/8 shafts. 3 thru bolts on a 4.42 dia. Bolt circle
55	Terminal board	125	Special pivot style rigid base	189	Includes split bushing and key for 5/8 shafts
56	TEAO gasketed conduit box - 3/4 extended thru bolts	126	Special mounting bracket	190	Includes pilot light detector
57	Tapped holes for Coleman mount	127	Special Hayward replacement for SP-1515-Z24-EBK, EBKC, C48M2A16A1	191	Includes mounting bracket
58	Supplied with resilient mounting rings	128	Special Doughboy replacement, less base, 40 degree C ambient, Al. Windings	192	Includes four (4) 10-32 mounting holes
59	Suitable for use with low ambient speed control	129	Special Canadian motor, external relay is required	193	Includes former GE brand equipment
60	Stock no. 1218A adapter and rings supplied for base mounting	130	Sleeve bearing	194	Includes fan blade
61	Start capacitor inside	131	Single flat on shaft	195	Includes 6' cord and switch
62	Split Phase	132	Shaft sleeve and key supplied for 5/8 diameter	196	Includes 5/8 adapter and key
63	Speck pump replacement motor	133	Shaft N-W = 2.50 with two flats .04 deep, 2.16 long, 90 degrees apart		
64	Spade connector	134	Shaft N-W = 2.50 with 5/8 diameter and keyway		
65	Six lead, Wye Delta				
66	Sealed switch design				
67	Rewire for second speed				
68	PSC motor				
69	Pin hole in shaft				
70	Permanent Split Capacitor				

# Index of Footnotes

No.	Footnote Description	No.	Footnote Description	No.	Footnote Description
197	Includes 2 speed plug	253	5/8" dia. keyed and flatted shaft 6" long	323	Kit includes three fans: 4" blade, 5.50" dia., CCW rot., 5" blade, 5.50" dia. CCW rot. 5" blade, 4.00" dia. CW rot.
198	Impedance protected	254	8.26" bolt circle, .28" diameter mounting holes	324	Motor fits tongue mount
199	Horizontal rigid base	255	70 degree C ambient	325	Can be mounted vertically by adding 10301702 cover (sold separately)
200	Has special 3.15 bolt circle	256	7-3/8" diameter bolt circle	326	Cast Iron
201	Four studs on a 5.15 diameter bolt circle	257	60 HZ only	327	Carrier Sensor Assembly (50HJ 401 484) not included
202	For motor only, use J375	258	6 MFD/370V @ 230V, 8MFD/370V @ 280V	328	Square Frame
203	For motor only, use J373	259	575 volt brake coil	329	For use with adjustable base
204	For motor only, use J372	260	56Z = 1/2" flatted shaft	330	56Z = 1/2" shaft with flat, 1.62" long
205	For motor only, use J370	261	56Z = 1/2" flat X 1-1/2" shaft, 3 1/2 shaft height	331	Cannot be mounted with rings – ring to ring dimension is body length
206	MasterFit motor, for additional information see page 73	262	56Z = 1/2" flat X 1.62" shaft, with 56 FR. Base	332	No connector plug, leads only
207	Fleximount arms are not attached to motor - bellyband with arms is packed with motor	263	53" leads	333	Aluminum shell
208	Fits most 38GS Series	264	50/60 HZ 1.4/1.7 Amps	334	Reversible
209	FB1106 & FR1106 also replaces motor used on Kramer Trenton units DD661, DD791 (use FR1106 for vertical applications)	265	50 leads, 2 1/2 resilient rings	335	Energy Efficient, cap start, low speed, PSC high speed
210	FB1076/FR1076 also replaces Kramer Trenton 045-004 and Universal HF3W0R8K, HF3W052N	266	50 HZ, 190/380 volt, 925 RPM	336	Capacitor start, low speed, PSC high speed
211	FB1056 is the same as FB1056X	267	50 HZ - 1.00 service factor, 190/380 volt	337	Connection diagram may be #23, old #125 or new #125 depending on date of manufacture
212	FB1056 also replaces Dunham Bush motor MTR-226	268	50 HZ	338	Taco replacement
213	Farm duty - gasketed conduit box and capacitor cover	269	50 cycle only	339	Armstrong replacement
214	F2 Assembly	270	5/8 keyed shaft with flat	340	Bell and Gosset replacement
215	Eyelet terminals on the leads	271	5/8 keyed shaft	341	1/2" dia. - shaft 2.25" long
216	Equipped with rotation switch for easy reversibility	272	5/16 diameter shaft	342	5/8" dia. - shaft 2.37" long
217	Equipped with provisions for mounting 4 X 4 conduit box	273	48Z = 5/8 dia. X 2 shaft, with 3 height	343	5/8" keyed shaft - 3.88" long
218	Energy efficient \$ - split phase start/capacitor run	274	48Z = 1/2" flat X 1.88 shaft, with 48 FR base	344	5/8" keyed shaft - 2.31" long
219	Dual voltage connection: black-common, white-120 volt, red-240 volt	275	48-56 frame mounting - 3 shaft height, sleeve and key adapter to 5/8 shaft	345	Rigid base - wall mount
220	Dripcover kit available (Part # 103017-03)	276	48-56 frame mounting - 3 1/2 shaft height, sleeve and key adapter to 5/8 shaft	346	65 degree C ambient
221	Does not have conduit box	277	47" leads	347	3 thru bolts, 4.62 dia, bolt circle
222	Does not have aluminum adapter bracket	278	40" leads	348	6-1/2" diameter body
223	Direct replacement for Surge milk pumps, Babson motor #27732, requires 30MFD/370VAC capacitor, separately - not supplied	279	4 thru bolts and 4 dummy studs on a 5.16 diameter bolt circle	349	2-1/4" mounting rings
224	Direct replacement for GE WB26X24, WB26X40 and WB26X45	280	4 in 1 multi-horsepower motor, replaces 1/3, 1/4, 1/5, 1/6 HP	350	Conduit connector included
225	Direct replacement for gaffer and sattler and dyna vent	281	36" leads	351	eMod equipped motor
226	Direct replacement for Carlin 27490S	282	3450 RPM for 60 HZ and 2875 RPM for 50 HZ	352	Pentair, almond paint, direct replacement motor
227	Direct replacement for Beckett 21805U	283	31" line leads, 5 capacitor leads	353	56Z = 5/8" diameter keyed shaft, 2-1/8" long
228	CWSE not reversible	284	31" leads (minimum)	354	56Z = 7/8" diameter keyed shaft, 2-1/4" long
229	CWLE rotation	285	3/8-16, Left hand threads, CWPE rotation	355	Base 805C290H04 and Clamps 165B674A01 available
230	CSA approvable not applicable	286	3.5 shaft height	356	3 rear mounting holes
231	Includes 8/32 mounting studs	287	3 shaft height	357	4 thru bolts, 4.42" dia. bolt circle
232	Closed main frame, 2 1/2 rings, 14 leads	288	26" leads (minimum)	358	4 thru bolts, on 4.62 dia. bolt circle
233	Class B insulation	289	12-1/4" leads	359	4 studs with spacer and nut on a 3.87 diameter bolt circle
234	Century nameplated product	290	230V and 208V connection, same torque	360	4 thru bolts on a 5.15 dia. bolt circle
235	Centurion II motors are switchless. Designed in a 48 frame shell diameter that is .80 inches smaller than the 56 frame Centurion and Centurion SE designs	291	208 Volt @ 1.0 Service factor	361	9 leads
236	CCW rotation facing opposite shaft end	292	20" leads	362	12 lead – capability for Y Start-Delta Run
237	Carrier replacement for HD60FK651, special BA dim. = 4.12	293	9" leads	363	Double shielded bearings with no regreasing provisions
238	Carrier replacement for HD60FK652, special BA dim. = 4.12	294	2.6" shaft height	364	Open bearings with regreasing provisions
239	Capacitor attached	295	2 shaft length and 1/2" shaft diameter, sleeve and key adapter to 5/8"	365	3 leads
240	Capacitor and rainshield included	296	2-Speed shipped less hi-lo switch for remote control	366	6 leads
241	Capacitor and rain shield included	297	184T base, 4.5 shaft height	367	12 leads
242	BX connector	298	2-1/4 X 7/8 keyed shaft	368	Inverter Duty
243	Base & clamp included, 9.44 ring to ring dimension	299	15" leads	369	Automatic Protector
244	Ball/sleeve construction	300	115 volt tap off main winding to power gear drive unit	370	48" leads
245	Ball Bearing, for motor only, use J320	301	11" leads (minimum)	371	Removable 56H rigid base
246	B668 fits pump #LA01N manufactured March, 1997 to present	302	11" leads	372	VCM™ Feature (Voltage Change Module)
247	B667 fits pump #LA01 manufactured March, 1997 and prior	303	10.19 bolt circle, .28 diameter mounting holes		
248	B14 mount	304	10-1/2" leads		
249	Arneson Pool Sweep	305	1/4-20 UNC-2B tapped holes on a 4.67 diameter bolt circle		
250	Also 1/10 Hp at 1050 RPM	306	1/2" shaft, sleeve and key adapter to 5/8 shaft		
251	All 1 HP and 1 1/2 HP motor supplied with conversion kit allowing motor to be used in most 56 frame applications	307	1/2" hub on shaft end frame with slinger. Grommet on lead exits.		
252	8.5 foot conductor cord and plug with strain relief attached	308	1/2" extended thru bolts		
		309	1/2" double flat shaft, 2 1/2 rings		
		310	1/2" dia. Shaft - single flat		
		311	1.40 Service factor		
		312	1" extended thru bolts each end		
		313	1" extended thru bolts		
		314	1-7/8" shaft end, 1/2 lead end extended thru bolts		
		315	1-5/8" shaft end, 7/8 lead end extended thru bolts		
		316	1-5/8" extended thru bolts		
		317	1-1/2" extended thru bolts		
		318	C Dimension is the total length including shaft		
		319	56Y = 7/8" diameter keyed shaft, 2.25 long		
		320	Bohn/Heatcraft mounting hardware and OEM fan blade included.		
		321	Mechanically Reversible		
		322			

# C Frame Motors

## Direct Replacement Motors



### UL LISTED AND CSA CERTIFIED

### Nutone

Stack Size	RPM/Speeds	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation Shaft End	Nutone No.	Industry Reference			Notes
								Gem	Robertshaw	Supco	
1/2"	3000/1	120	0.51	SS-613	.217" x 2.51"	CCW	82230				
1/2"	3000/1	120	0.89	C01550	.217" x 1.75"	CCW	C65878	EM550	VFM-100	SM-550	194
5/8"	3000/1	120	1.08	C01555	.217" x 2.34"	CCW	C68627	EM555	VFM-106	SM-555	
3/4"	3000/1	120	0.93	C01553	.217" x 1.80"	CCW	C66582	EM553	VFM-104	SM-553	215
3/4"	3000/1	120	0.96	C01552	.217" X 1.20"	CW	C63675	EM552	VFM-103	SM-552	
7/8"	3000/2	120	1.15	C01551	.217" x 1.36"	CW	C52367	EM551	VFM-101	SM-551	52,197
7/8"	3000/2	120	1.47	C01554	.217" x 1.29"	CCW	C27987	EM554	VFM-105	SM-554	52,197



C01691, C01692

### Bohn

Stack Size	RPM	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation Shaft End	Stand-offs	Bohn	Industry Reference		Notes
									Gem	Uppco	
5/8"	3000	120	0.80	C01691	.18 x 1.8	CW	5036F & 5018S	5007S	EM691		85
5/8"	3000	240	0.32	C01692	.18 x 1.8	CW	5036G & 5018T	5007T	EM692		86



C01610



BR052000



CBR216



BR0675



C01611, C01612

### Broan

Stack Size	RPM/Speeds	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation Shaft End	Broan	Industry Reference			Notes
								Electrohome	Rotom		
1/2"	2850/1	120	0.80	CBR216	.181" x 1.3"	CCW	10940969				
3/4"	3000/1	115	.67	C01611	.25" x 2.45"	CCW	162				
3/4"	2850/2	120	1.04	BR052000	.217" x 1.2"	CCW	30080072				
7/8"	2850/1	120	1.40	BR0675	.217" x 1.2"	CCW	10940056				
1"	3000/2	115	.88-.68	C01610	.217" x 1.3"	CCW	0080011	2858-207-002		R610	1



CDEL671, CRAN590

## C-Frame, Commercial, Evaporative Fan Motors for Restaurant Equipment

Stack Size	RPM/Speeds	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation Shaft End	Industry Reference		
							Delfield	Randall	Notes
1/2"	3000/1	120	.45	CRAN590	.181" x 1"	CW		3590	1,64,176

### Notes:

1. Item to be discontinued when stock is depleted
52. Two-Speed Connection: White-common, Red-low, Black-high
64. Spade Connector
176. Moisture Proof Stator
194. Includes Fan Blade
197. Includes 2-Speed Plug
215. Eyelet Terminals on the Leads

## Direct Replacement Motors

### Features:

- CSA Certified
- Fan Blades
- Mounting Hardware
- Single & Two-Speed
- Shaded Pole
- UL Recognize



C-Frame motor fans sold separately.  
See page 252.



**Type A**



**Type B**



**Type C**



**Type D**

Designed to replace many 3.3" diameter & "C" Frame Motors, used on commercial & domestic refrigeration applications, as well as exhaust fans, range hoods, heaters, ventilators, evaporators and many other air moving applications.

Stack Size	RPM/Speeds	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation	Motor Type	Gem	Industry Reference	Robertshaw	Acme	Notes
1/2"	3000/1	120	0.42	<b>C01678</b>	.187" X 1.50"	Rev.	B	EM678	14015			
1/2"	3000/1550/2	120	0.65/.21	<b>C01681</b>	.187" X 1.36"	Rev.	B	EM681	14021			52
5/8"	3000/1	115	0.51	<b>C01316</b>	.187" X 1.00"	CWSE	B					135
5/8"	3000/1	120	0.30	<b>C01677</b>	.187" X 1.28"	Rev.	B	EM677	14013			
5/8"	3000/1	120	0.60	<b>C01375</b>	.181" X 1.50"	CCWSE	B					4
3/4"	3000/1	120	0.90	<b>C01330</b>	.217" X 2.37"	CCWSE	B					4,171
5/8"	3000/1	120	0.40	<b>C01670</b>	.187" X 1.42"	Rev.	A	EM670	14001		600/700/710	
5/8"	3000/1	120	0.40	<b>C01671</b>	.187" X 1.42"	Rev.	B	EM671	14003			
5/8"	3000/1	120	0.45	<b>C01700</b>	.187" x 1.63"	CWSE	D				700	321,322,323
5/8"	3000/1	120	0.48	<b>C01679</b>	.217" X 1.38"	Rev.	A	EM679	14017			
5/8"	3000/1550/2	120	0.71/0.34	<b>C01673</b>	.187" X 1.33"	Rev.	A	EM673	14007			52
5/8"	3000/1	240	0.25	<b>C01672</b>	.187" X 1.48"	Rev.	A	EM672	14005		602/702	6
7/8"	3000/1550/2	120	1.41/0.21	<b>C01685</b>	.187" X 1.58"	CWSE	B	EM685				52,224
1"	3000/1550/2	120	0.73/0.36	<b>C01682</b>	.187" X 1.29"	Rev.	B	EM682	14023			52
1"	3000/1550/2	120	1.28/0.21	<b>C01684</b>	.217" X 2.00"	Rev.	B	EM684				52,225
1"	3000/1	120/240	1.0/0.50	<b>C01675</b>	.187" X 2.07"	Rev.	A	EM675			7502	219
1"	3000/1	240	0.30	<b>C01683</b>	.187" X 1.15"	Rev.	B	EM683	14025			
1-1/8"	3000/1	120	0.70	<b>C01680</b>	.187" X 1.46"	Rev.	B	EM680	14019		750	
1-1/5"	3000/1	115	1.10	<b>C01322</b>	.250" X 2.00"	CWSE	B					2,171

### Notes:

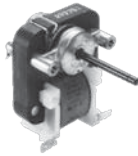
2. Ball bearing
4. Supplied with lead and plug assembly
6. 50/60 HZ
52. Two-speed connection: white-common, red-low, black-high
135. Shaft has no flat
171. Motor is thermally protected
219. Dual voltage connection: black-common, white-120 volt, red-240 volt
224. Direct replacement for GE WB26X24, WB26X40 and WB26X45
225. Direct replacement for Gaffers & Sattler and Dyna Vent
321. Bohn/Heatcraft mounting hardware and OEM fan blade included
322. Mechanically reversible
323. Kit includes three fans: 4 blade, 5.50 dia. CCW rot., 5 blade, 5.50 dia. CCW rot., 5 blade, 4.00 dia. CW rot

# C Frame Motors

## Direct Replacement Motors



Type A



Type B



Type C



Type D



Type E

### 120 VOLT, EVAPORATIVE FAN MOTORS

Stack Size	RPM/Speeds	Volts	Amps	Stock Number	Shaft Dia. and Length	Rotation	Motor Type	Gem	Industry Reference	Notes
1/2"	3000	120	.20	<b>C01336</b>	.125" x 1.30"	CWSE	C	<b>EM336</b>	For Gibson/Frigidaire	77
1/2"	3000	120	.30	<b>C01334</b>	.187" x 1.66"	CWSE	B	<b>EM334</b>	For Admiral	64
1/2"	3000	120	.31	<b>C01332</b>	.187" x 1.87"	CWSE	E	<b>EM332</b>	For Frigidaire	64
1/2"	3000	120	.39	<b>C01333</b>	.187" x 1.42"	CCWSE	E	<b>EM333</b>	For Frigidaire	64
5/8"	3000	115	.40	<b>C01335</b>	.187" x 1.67"	CWSE	A	<b>EM335</b>	For Admiral	64
3/4"	3000	120	.86	<b>C01337</b>	.187" x 2.00"	CCWSE	D	<b>EM337</b>	For Amana/Westinghouse	64

**Notes:**

64. Spade Connector

77. Molex Plug

## Fireplace Fan

**Features:**

- Mounting Brackets fit 5.83" B.C.D.
- Universal Fireplace Fan Replacement
- 100 CFM



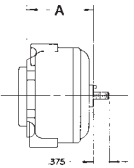
C01574

Stack Size	RPM	Speeds	Volts	Hz	Amps	Stock Number	Alternate	Shaft Dia. and Length	Rotation	Protection	Cross Reference	Notes
1/2"	3000	1	120	60	.46	<b>C01574</b>			CWSE	Impedance	Rotom RF100 J574	

# Unit Bearing Fan Motors

## Features:

- Aluminum & Cast Iron
- All Models Include Vibration Dampening Hub Washer, Speed Nut and 4 Mounting Screw
- Continuous Duty, Air Over
- 60/50 Hz
- Shaded Pole
- 115 & 230 Volt
- Totally Enclosed
- UL & CSA Recognized
- Horizontal and shaft up mounting only



## CAST IRON - TWO MOUNTING FEET

Watts Output	RPM	Volts	Amps	Stock Number	Rotation	Rear Mounting Holes	"A" Dim.	Emerson Number	Notes
2	1550	115	0.22	UB02CWL2F	CWLE	3	2.52		
4	1550	115	0.29	UB04CWL2F	CWLE	3	2.52	2115	
4	1550	115	0.29	UB04CCL2F	CCWLE	3	2.52	2103	
4	1550	230	0.15	UB04CWH2F	CWLE	3	2.52	2123	
4	1550	230	0.15	UB04CCH2F	CCWLE	3	2.52	2122	
5	1550	115	0.34	UB05CWL2F	CWLE	3	2.52	2119	
6	1550	115	0.40	UB06CWL2F	CWLE	3	2.74	2117	
6	1550	115	0.36	UB06CCL2F	CCWLE	3	2.74	2116	
9	1550	115	0.55	UB09CWL2F	CWLE	3	2.74	2108	
9	1550	115	0.55	UB09CCL2F	CCWLE	3	2.74	2118	
9	1550	230	0.27	UB09CWH2F	CWLE	3	2.74	2110	
9	1550	230	0.27	UB09CCH2F	CCWLE	3	2.74	2109	
16	1550	115	1.0	UB16CWL12F	CWLE	3	3.11	2112	
16	1550	115	1.0	UB16CCL12F	CCWLE	3	3.11	2111	
16	1550	230	0.50	UB16CWHV12F	CWLE	3	3.11	2114	
16	1550	230	0.50	UB16CCHV12F	CCWLE	3	3.11	2113	

## ALUMINUM - TWO MOUNTING FEET

Watts Output	RPM	Volts	Amps	Stock Number	Rotation	Rear Mounting Holes	"A" Dim.	Emerson Number	Notes
4	1550	115	0.29	UB04CWL2F	CWLE	5	2.25	D554	
4	1550	115	0.29	UB04CCL2F	CCWLE	5	2.25	D555	
5	1550	115	0.34	UB05CWL2F	CWLE	5	2.25	D582	
5	1550	115	0.34	UB05CCL2F	CCWLE	5	2.25	D583	
6	1550	115	0.40	UB06CWL2F	CWLE	5	2.50	D558	
6	1550	115	0.40	UB06CCL2F	CCWLE	5	2.50	D559	
9	1550	115	0.50	UB09CWL2F	CWLE	5	2.50	D562	
9	1550	115	0.50	UB09CCL2F	CCWLE	5	2.50	D563	
9	1550	230	0.25	UB09CWH2F	CWLE	5	2.50	D564	
9	1550	230	0.25	UB09CCH2F	CCWLE	5	2.50	D565	

### Notes:

See Parts & Accessories starting on page 258

## Energy Savings ECM Motor

Manufactured by Electric Motors & Specialties



### Features:

- Advanced ECM Design
  - Up to 65% Efficiency
  - Rain Shielded
  - Cast Iron
  - 13" Leads
  - Lvall Plug
  - UL Approved E128044
  - Wide temperature range oil for use in evaporators and condensers.
  - Tapped & Drilled Mounting Holes
- Evaporator Mount - Standard 3-hole, 4-hole Hussmann Style  
Condenser Mount - Double boss

iMotor®

Breakthrough motor design offers huge energy savings for the refrigeration market.

Replaces 6, 9, 12 and 14, 15, 16 watt PSC and low efficiency shaded pole motors in evaporators and condenser units.

Direct Drop-in Replacement for supermarket case evaporator fans and condenser units



Watts	RPM	Volts	Amps	Stock No.	ROT OSE	Rear Mounting Holes	"A" Dim.	Notes
6, 9, 12	1550	115	.2-.3	9207F2	CW	5	2.93	New!
14, 15, 16	1550	115	.47-.58	9208F2	CW	5	2.93	New!

# Unit Bearing Fan Motors

## Features:

- Aluminum & Cast Iron
- All Models Include Vibration Dampening Hub Washer, Speed Nut and 4 Mounting Screw
- Continuous Duty, Air Over
- 60/50 Hz
- Shaded Pole
- 115 & 230 Volt
- Totally Enclosed
- UL & CSA Recognized
- Horizontal and shaft up mounting only



## CAST IRON - ONE MOUNTING FOOT

Watts Output	RPM	Volts	Amps	Stock Number	Rotation	Rear Mounting Holes	"A" Dim.	GE No.	Notes
2	1550	115	0.22	UB02CWL	CWLE	3	2.39		
2.5	1550	115	0.26	UB025CWL	CWLE	3	2.39	5111	
4	1550	115	0.29	UB04CWL	CWLE	3	2.39	5211	
4	1550	115	0.29	UB04CCL	CCWLE	3	2.39	5212	
4	1550	230	0.15	UB04CWH	CWLE	3	2.39	5221	
4	1550	230	0.15	UB04CCH	CCWLE	3	2.39	5222	
6	1550	115	0.40	UB06CWL	CWLE	3	2.93	5311	
6	1550	115	0.40	UB06CCL	CCWLE	3	2.93	5312	
9	1550	115	0.55	UB09CWL	CWLE	3	2.93	5411	
9	1550	115	0.55	UB09CCL	CCWLE	3	2.93	5412	
9	1550	230	0.27	UB09CWH	CWLE	3	2.93	5421	
9	1550	230	0.27	UB09CCH	CCWLE	3	2.93	5422	
16	1550	115	1.0	UB16CWL V1	CWLE	3	3.19	5811	
16	1550	115	1.0	UB16CCL V1	CCWLE	3	3.19	5812	
16	1550	230	0.50	UB16CWH V1	CWLE	3	3.19	5821	
16	1550	230	0.50	UB16CCH V1	CCWLE	3	3.19	5822	

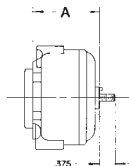
## ALUMINUM - ONE MOUNTING FOOT

Watts Output	RPM	Volts	Amps	Stock Number	Rotation	Rear Mounting Holes	"A" Dim.	GE No.	Notes
2	1550	115	0.22	UB02CWLA	CWLE	3	2.47	5109	161
2.3	1550	115	0.25	UB023CWLA	CWLE	3	2.47		161
4	1550	115	0.29	UB04CWLA	CWLE	3	2.47	5213	
4	1550	115	0.29	UB04CCLA	CCWLE	3	2.47	5214	
4	1550	230	0.15	UB04CWH A	CWLE	3	2.47	5223	
4	1550	230	0.15	UB04CCHA	CCWLE	3	2.47	5224	
6	1550	115	0.40	UB06CWLA	CWLE	3	2.91	5313	
6	1550	115	0.40	UB06CCLA	CCWLE	3	2.91	5314	
9	1550	115	0.50	UB09CWLA	CWLE	3	2.91	5413	
9	1550	115	0.50	UB09CCLA	CCWLE	3	2.91	5414	
9	1550	230	0.25	UB09CWH A	CWLE	3	2.91	5423	
9	1550	230	0.25	UB09CCHA	CCWLE	3	2.91	5424	
16	1550	115	1.0	UB16CWLA	CWLE	3	3.19	5813	
16	1550	115	1.0	UB16CCLA	CCWLE	3	3.19	5814	
16	1550	230	0.50	UB16CWH A	CWLE	3	3.19	5823	

### Notes:

161. No side bosses

See Parts & Accessories starting on page 258

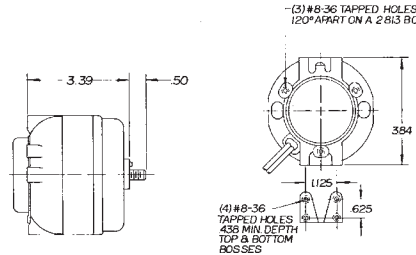


Manufactured by Electric Motors & Specialties 

## 16-25-35 WATT (1/50 to 1/20 HP)

### Features:

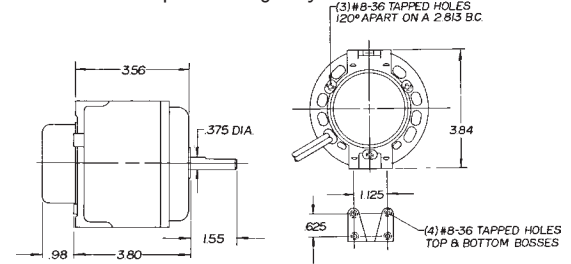
- High Efficiency
- Cast Iron
- Fan Motors
- Horizontal and Shaft Up mounting only



## 50-75 WATT (1/15 HP)

### Features:

- High Efficiency
- Cast Iron
- Fan Motors
- Horizontal and Shaft Up mounting only



Watt Output	RPM	Volts	Amps	Stock Number	Alternate Stock No.	Shaft Diameter & Length	Rotation	EMS Number	OEM Part Number	Notes
15	1500	115	.60	277		5/16 x 7	CCWLE	ESPOL15EMJR11	24-0366	3
15	1500	115	.60	292		5/16 x 5	CCWLE	ESP-L15EMJR1B2		
15	1500	115	.60	293		5/16 x 7THD	CCWLE	ESP-L15EMJR1B1		3,6
15	1500	115	.60	294		5/16 x 5THD	CCWLE	ESP-L15EMJR1		1,3
15	1500	115	.60	295		5/16 x 7	CCWLE	ESP-L15EMJR1B3		
15	1500	115	.60	296		5/16 x 9	CCWLE	ESP-L15EMJR17		69
16	1500	115	.80	246		1/4 x 20THD	CWLE	ESPL16EM1		
16	1500	115	.80	247		1/4 x 20THD	CCWLE	ESPL16EMR1		185
16	1500	230	.40	248	UB16CWH	1/4 x 20THD	CWLE	ESPL16EM2		185
16	1500	230	.40	249		1/4 x 20THD	CCWLE	ESPL16EMR2		185
25	1500	115	1.1	297		5/16 x 7	CCWLE	ESPL25MJR1B1		3,69
25	1500	115	1.1	299		8-1/8 x 5/16 x 1/2	CCWLE	ESPOL25MVRD12		1
25	1500	115	1.1	250		1/4 x 20THD	CWLE	ESPL25EM1		
25	1500	115	1.1	251	UB25CCL	1/4 x 20THD	CCWLE	ESPL25EMR1		185
25	1500	230	.60	252		1/4 x 20THD	CWLE	ESPL25EM2		185
25	1500	230	.60	253		1/4 x 20THD	CCWLE	ESPL25EMR2		
35	1500	115	1.4	254		1/4 x 20THD	CWLE	ESPL35EM1	810M035A29	
35	1500	115	1.4	255		1/4 x 20THD	CCWLE	ESPL35EMR1		
35	1500	230	.70	256		1/4 x 20THD	CWLE	ESPL35EM2	810M035A21 & A28	
35	1500	230	.70	257		1/4 x 20THD	CCWLE	ESPL35EMR2		
50	1500	115	1.7	258		3/8 x 1-1/2	CWLE	ESPOL50EM1	050-0244-01	
50	1500	115	1.7	291		5/16 x 3	CWLE	ESPOL50EM1B1	134350000	3
50	1500	115	1.7	259		3/8 x 1-1/2	CCWLE	ESPOL50EMR1		3,6,185
50	1500	115	1.7	289		3/8 x 1-1/2	CWLE	ESPOL50EM13	998-1008-00	3,187
50	1500	230	.85	260		3/8 x 1-1/2	CWLE	ESPOL50EM2	050-0244-00	6
50	1500	208-230	1.2	9200		3/8 x 1-1/4	CWLE	ESPOL60EM2		
50	1500	230	.85	261		3/8 x 1-1/2	CCWLE	ESPOL50EMR2		3,6,185
50	1500	230	.85	276		5/16 x 2-1/2	CCWLE	ESPOL50EMJR21	810M050A62	3
50	1500	230	.85	285		5/16 x 1-1/2	CWLE	ESPOL50EM2B		3
50	1500	230	.85	288		3/8 x 1-1/2	CWLE	ESPOL50EM26	998-1007-00	3,187
50	1500	460	.44	290		3/8 x 1-1/2	CWLE	ESPOL50EM461	050-0244-02	3
75	1500	230	1.5	298		3/8 x 1-1/2	CWLE	ESPOL75EM2		

### Notes:

- Item to be discontinued when stock is depleted
- Special OEM Replacement Motor (See Page 16-18)
- 60/50 HZ
- Pin Hole
- Items with Alternate and A. O. Smith stock numbers and same specifications are identical. The A. O. Smith stock number will be discontinued when stock is depleted.
- Includes Mounting Bracket and Shaft Bushing
- See Parts & Accessories starting on page 258

# Special Unit Bearing Replacement Motors

## Direct Drive Fan Motors 4 & 6 Lug

Manufactured by Electric Motors & Specialties 

### Features:

- Ball Bearing
- Continuous Air Over
- Shaded Pole & PSC
- 4 Lug
- 5-1/4" Diameter
- 6-Pole — 1050 RPM
- 60 Hz

### Replacement:

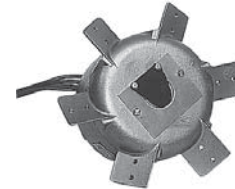
- Stk 264 - Replaces Janitrol JD65F30
- Stk 270 - Replaces Janitrol J65F30 & B65F30
- Stk 265 - Replaces Janitrol J93F41
- Stk 286 - Replaces Janitrol B13400227
- Stk 267 - Replaces Manitowoc 002412313
- Stk 268 - Replaces S60HUB2, Janitrol JA65F30 and Luxaire 20-0189



HP	RPM	Volts	Amps	Stock Number	Alternate Stock No.	Rotation*	Capacitor	EMS No.	Notes
1/15	1050	115	2.0	<b>262</b>		CCW	Shaded Pole	ESP60BCU4K7-C1	1
1/10	1050	115	2.4	<b>263</b>		CCW	Shaded Pole	ESP60BCU4K8-C1	1
1/8	1050	230	1.5	<b>264</b>		CCW	Shaded Pole	ESP60BHU4K3-C1	1
1/8	1050	230	1.5	<b>265</b>		CW	Shaded Pole	ESP60BHG4K3R-C1	1
1/6	1050	230	1.3	<b>267</b>	<b>LM9505</b>	CCW	2MFD-440V	S60BHU4L6-C2	1,185
1/5	1050	115	3.5	<b>269</b>		CCW	10MFD-370V	S60BCU4L1-C1	1
1/5	1050	230	1.4	<b>268</b>		CCW	2.5MFD-440V	S60BHU4L9-C1	1
1/5	1050	230	1.8	<b>270</b>		CCW	3MFD-440V	S60BHU4L3-C1	1
1/5	1050	230	1.4	<b>286</b>		CW	2.5MFD-440V	S60BHG4L9R-C1	1

### Features:

- Continuous Air Over
- Permanent Split Capacitor
- Sleeve Bearing
- 6 Lug
- 6-1/4" Diameter
- 60 Hz
- 8-Pole – 800 RPM



HP	RPM	Volts	Amps	Stock No.	Rotation*	Capacitor	EMS No.	Notes
1/4	800	230	2.0	<b>273</b>	CCW	4MFD-440V	S131HU6J3-C1	1

### Notes:

1. Item to be discontinued when stock is depleted

185. Items with Alternate and A. O. Smith stock numbers and same specifications are identical. The A. O. Smith stock number will be discontinued when stock is depleted.

\* Rotation Viewed from Opposite Lug End

See Parts & Accessories starting on page 258

# Special Unit Bearing Replacement Motors

## Bally



285

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
50	1500	1	230	.85	3-7/8"	285	5/16 x 1-1/2	CWLE	Shaded Pole	3.77	ESPOL50EM2B	

## Copeland



254



258, 260, 290



276



288, 289

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
35	1500	1	115	1.4	3-7/8"	254	1/4"-20 THD.	CWLE	Shaded Pole	3.39	050-0267-0	
50	1500	1	115	1.7	3-7/8"	258	3/8 x 1-1/2	CWLE	Shaded Pole	3.78	050-0244-01	
50	1500	1	230	.85	3-7/8"	260	3/8 x 1-1/2	CWLE	Shaded Pole	3.78	050-0244-00	
50	1500	1	115	1.7	3-7/8"	289	3/8 x 1-1/2	CWLE	Shaded Pole	3.78	998-1008-00	
50	1500	1	230	.85	3-7/8"	288	3/8 x 1-1/2	CWLE	Shaded Pole	3.78	050-0244-00	
50	1500	1	230	.85	3-7/8"	276	5/16 x 2-1/2	CCWLE	Shaded Pole	3.75	050-0264-0	
50	1500	1	460	.44	3-7/8"	290	3/8 x 1-1/2	CWLE	Shaded Pole	3.63	050-0244-02	

## Crystal Tips



246

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
16	1550	1	115	.80	3-7/8"	246	1/4"-20 THD.	CWLE	Shaded Pole	3.39	879-386857	

## Gibson/Kelvinator



277

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
15	1500	1	115	.60	3-7/8"	277	5/16 x 7	CCWLE	Shaded Pole	3.32	24-0366	

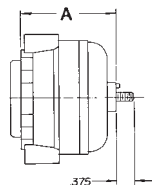
## Hill Refrigeration



UB05CWL2F

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
5	1550	1	115	.34	3-1/2"	UB05CWL2F	1/4"-20 THD.	CWLE	Shaded Pole	2.50	PP7577M	

Note:  
See Parts & Accessories starting on page 258



# Special Unit Bearing Replacement Motors

## Ice-O-Matic



246, 254, 256



260

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
16	1500	1	115	.80	3-7/8"	246	1/4"-20 THD.	CWLE	Shaded Pole	3.39	9161045-04	
35	1500	1	115	1.4	3-7/8"	254	1/4"-20 THD.	CWLE	Shaded Pole	3.39	9161078-01	
35	1500	1	230	.70	3-7/8"	256	1/4"-20 THD.	CWLE	Shaded Pole	3.39	9161078-03 309316-000	
50	1500	1	230	.85	3-7/8"	260	3/8 x 1-1/2	CWLE	Shaded Pole	3.78	319357-000	

## IMI Cornelius



293, 294



297



256



260, 291

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
15	1500	1	115	.60	3-7/8"	293	5/16"-7" THD.	CCWLE	Shaded Pole	3.17	31-0472 30-9369	
15	1500	1	115	.60	3-7/8"	294	5/16"-5" THD.	CCWLE	Shaded Pole	3.17	18-7036 18-7388 18-9840	1
25	1500	1	115	1.1	3-7/8"	297	5/16" x 7	CCWLE	Shaded Pole	3.17	31-0154	69
35	1500	1	230	.70	3-7/8"	256	1/4"-20 THD.	CWLE	Shaded Pole	3.39	30-9316	
50	1500	1	115	1.7	3-7/8"	291	5/16" x 3	CWLE	Shaded Pole	3.80	13435-0000	
50	1500	1	230	.85	3-7/8"	260	3/8" x 1-1/2	CWLE	Shaded Pole	3.78	319352-000	

## Kelvinator



277

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
15	1500	1	115	.60	3-7/8"	277	5/16 x 7	CCWLE	Shaded Pole	3.32	5.024-0366	

## Larkin Coil

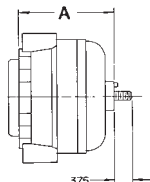


277

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
15	1500	1	115	.60	3-7/8"	277	5/16 x 7	CCWLE	Shaded Pole	3.32	24-0366	

### Notes:

- Item to be discontinued when stock is depleted
  69. Pinhole in shaft
- See Parts & Accessories starting on page 258



# Special Unit Bearing Replacement Motors

## Manitowoc



Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
25	1500	1	115	1.1	3-7/8"	250	1/4" x 20 THD	CWLE	Shaded Pole	3.39	002412283	
35	1500	1	115	1.4	3-7/8"	254	1/4" x 20 THD	CWLE	Shaded Pole	3.39	002401591 002412373	
50	1500	1	230	.85	3-7/8"	260	3/8" x 1-1/2	CWLE	Shaded Pole	3.78	002412353	

## Scotsman



Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
15	1550	1	115	.60	3-7/8"	294	5/16" x 5 THD	CCWLE	Shaded Pole	3.56	12-1563-01	1
25	1500	1	115	1.1	3-7/8"	250	1/4" x 20 THD	CWLE	Shaded Pole	3.39	18-7200-01	
50	1500	1	115	1.7	3-7/8"	258	3/8" x 1-1/2	CWLE	Shaded Pole	3.78	18-5105-11	
50	1500	1	230	.85	3-7/8"	260	3/8" x 1-1/2	CWLE	Shaded Pole	3.78	18-5105-02	

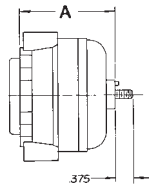
## Tecumseh








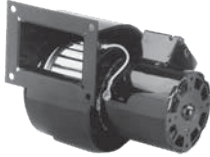

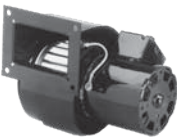

Watt Output	RPM	Speeds	Volts	Amps	Motor Dia.	Stock Number	Shaft Dia. & Length	Rotation	Capacitor	"A" Dim	Cross Reference	Notes
35	1500	1	115	1.4	3-7/8"	254	1/4" x 20 THD	CWLE	Shaded Pole	3.39	810M035A29 TFM-351 ESPL35EM11-C1	
35	1500	1	230	.70	3-7/8"	256	1/4" x 20 THD	CWLE	Shaded Pole	3.39	810M035A28 TFM-352 ESPL35EM21-C1	
50	1500	1	230	.85	3-7/8"	276	5/16" x 2-1/2	CCWLE	Shaded Pole	3.75	810M050A62	

### Notes:

- Item to be discontinued when stock is depleted  
See Parts & Accessories starting on page 258






# General Purpose Centrifugal Blowers

<p><b>55 CFM STOCK NO. 12</b></p> <ul style="list-style-type: none"> <li>• 1/200-115-60/50-1-1550 • AMPS 0.25</li> <li>• Sleeve Bearing</li> </ul> 	<p><b>60 CFM STOCK NO. 9443</b></p> <ul style="list-style-type: none"> <li>• 1/100-208-240-60/50-1-3000</li> <li>• AMPS .3/.3 • Sleeve Bearing</li> <li>• Replaces: Fasco 50747-D230, WWG 2C914</li> </ul> 	<p><b>60 CFM STOCK NO. 9461</b></p> <ul style="list-style-type: none"> <li>• 1/100-115-60-1-3000 • AMPS 0.5</li> <li>• Sleeve Bearing</li> <li>• Replaces: Fasco 50747-D500</li> </ul> 	<p><b>60 CFM STOCK NO. 9470</b></p> <ul style="list-style-type: none"> <li>• 1/100-115-60/50-1-3200 • AMPS 0.6/0.8</li> <li>• Sleeve Bearing • Includes Damper</li> <li>• Replaces: W.W.G. 4C440, Fasco 50747-D401</li> </ul> 
<p><b>65 CFM STOCKNO.9462</b></p> <ul style="list-style-type: none"> <li>• 1/70-115-60-1-3200 • AMPS 0.8</li> <li>• Sleeve Bearing</li> <li>• Replaces Fasco 50748-D500, W.W.G. 4C443</li> </ul> 	<p><b>65 CFM STOCK NO. 9463</b></p> <ul style="list-style-type: none"> <li>• 1/65-115-60-1-3200 • AMPS 0.8</li> <li>• Sleeve Bearing</li> <li>• Replaces Fasco 50748-D700</li> </ul> <p>Note: 1</p> 	<p><b>70 CFM STOCK NO. 9460</b></p> <ul style="list-style-type: none"> <li>• 1/70-120-60-1-3200 • AMPS 0.7</li> <li>• Sleeve Bearing • Molded Cord &amp; Plug</li> <li>• Replaces Fasco A071, 7021-7371</li> </ul> 	<p><b>80 CFM STOCK NO. 9482</b></p> <ul style="list-style-type: none"> <li>• 1/125/1/30-115-60-1-1550</li> <li>• AMPS .57/1.4 • 2 Speed • Sleeve Bearing</li> </ul> <p>Note: 1</p> 
<p><b>85-55 CFM STOCK NO. 414</b></p> <ul style="list-style-type: none"> <li>• 1/70-115-60-1-2800/1800</li> <li>• AMPS 0.65/0.45 • Sleeve Bearing</li> <li>• 2 Speed</li> </ul> 	<p><b>90 CFM STOCK NO. 13</b></p> <ul style="list-style-type: none"> <li>• 1/40-115-60-1-3000 • AMPS 1.0</li> <li>• Sleeve Bearing</li> </ul> 	<p><b>90 CFM STOCK NO. 383</b></p> <ul style="list-style-type: none"> <li>• 1/40-115-60-1-3000 • AMPS 1.0</li> <li>• Sleeve Bearing</li> </ul> 	<p><b>90 CFM STOCK NO. 408</b></p> <ul style="list-style-type: none"> <li>• 1/40-115/208-230-60/50-1-3000</li> <li>• AMPS 0.86/0.43 • Ball Bearing</li> <li>• Replaces: York, Fasco B23618</li> </ul> 
<p><b>105 CFM STOCK NO. 9480</b></p> <ul style="list-style-type: none"> <li>• 1/50-115-60-1-1560 • AMPS 0.6</li> <li>• Sleeve Bearing</li> <li>• Replaces: Fasco 50757-D500</li> </ul> <p>Note: 1</p> 	<p><b>135 CFM STOCK NO. 9468</b></p> <ul style="list-style-type: none"> <li>• 1/25-115-60/50-1-2600 • AMPS 1.3</li> <li>• Sleeve Bearing</li> <li>• Replaces: Fasco B24220</li> </ul> 	<p><b>140 CFM STOCK NO. 9492</b></p> <ul style="list-style-type: none"> <li>• 1/50-115-60/50-1-3000 • AMPS 1.0</li> <li>• Sleeve Bearing</li> <li>• Replaces: WWG 4C442, Fasco 50752-D500</li> </ul> 	<p><b>140 CFM STOCK NO. 9493</b></p> <ul style="list-style-type: none"> <li>• 1/50-208-240-60/50-1-3000</li> <li>• AMPS 0.5 • Sleeve Bearing</li> <li>• Replaces: WWG 2C915, Fasco 50752-D230</li> </ul> 
<p><b>148 CFM STOCK NO. 9413</b></p> <ul style="list-style-type: none"> <li>• 1/20-115-60/50-1-3160/2630</li> <li>• AMPS 1.5/1.8 • Sleeve Bearing</li> <li>• Replaces: Fasco 7021-3469, WWG 4C446</li> </ul> 	<p><b>150 CFM STOCK NO. 9483</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-1-3000 • AMPS 1.1</li> <li>• Sleeve Bearing</li> </ul> 	<p><b>160 CFM STOCKNO.458</b></p> <ul style="list-style-type: none"> <li>• 1/45-115-60/50-1-1595/1355</li> <li>• AMPS 1.2/1.4 • Sleeve Bearing</li> <li>• Replaces: WWG 1C982, Fasco 50755-D500</li> </ul> 	<p><b>160 CFM STOCK NO. 9410</b></p> <ul style="list-style-type: none"> <li>• 1/45-230-60/50-1-1605/1370</li> <li>• AMPS 0.7/0.8 • Sleeve Bearing</li> <li>• Replaces: W.W.G. 2C916, Fasco 50755-D230</li> </ul> <p>Note: 1</p> 

**Note:**

1. Item to be discontinued when stock is depleted  
 For mounting dimensions see pages 23-25, for CFM data see pages 26-27

# General Purpose Centrifugal Blowers

<p><b>180 CFM STOCK NO. 9471</b></p> <ul style="list-style-type: none"> <li>• 1/22-115-60-1-1500 • AMPS 2.0/1.3/1</li> <li>• Three-Speed • Replaces: Fasco B47120, W.W.G. 4C754</li> </ul> 	<p><b>250 CFM STOCK NO. 9437</b></p> <ul style="list-style-type: none"> <li>• 1/20-120-60-1-3000 • AMPS 1.8</li> <li>• Double Blower • Single Speed</li> <li>• Plastic Housing</li> </ul> 	<p><b>250 CFM STOCK NO. 9498</b></p> <ul style="list-style-type: none"> <li>• 1/15 • 115-60/50-1-1600 • AMPS 0.6</li> <li>• Sleeve Bearing • PSC Motor</li> <li>• Replaces: Fasco A250</li> </ul>  <p>Note: 1</p>	<p><b>265 CFM STOCK NO. 459A</b></p> <ul style="list-style-type: none"> <li>• 1/25-115-60/50-1-1630/1400</li> <li>• AMPS 1.9/2.1 • For Motor Only Use Stock Motor No. 562 • Sleeve Bearing</li> <li>• Replaces: Fasco B45227, W.W.G. 4C447</li> </ul> 
<p><b>265 CFM STOCK NO. 9411</b></p> <ul style="list-style-type: none"> <li>• 1/25-230-60/50-1-1650/1375</li> <li>• AMPS 0.9/1.1 • Sleeve Bearing</li> <li>• Replaces: W.W.G. 4C869, Fasco B45227-2</li> </ul> 	<p><b>320 CFM STOCK NO. 9486</b></p> <ul style="list-style-type: none"> <li>• 1/25 • 115-60-1-1500 • AMPS 1.3</li> <li>• Sleeve Bearing • Includes Mounting Flanges • Replaces: Fasco 50756-D500</li> </ul> 	<p><b>320 CFM STOCK NO. 9497</b></p> <ul style="list-style-type: none"> <li>• 1/25 • 230-60/50-1-1450 • AMPS 0.7</li> <li>• Sleeve Bearing • Includes Mounting Flanges • Replaces: Fasco 50756-D230</li> </ul>  <p>Note: 1</p>	<p><b>326 CFM STOCK NO. 9467</b></p> <ul style="list-style-type: none"> <li>• 1/12-115-60/50-1-1600 • AMPS 1.1</li> <li>• PSC – Capacitor Supplied • Ball Bearing</li> <li>• Includes Mounting Plate</li> <li>• Replaces: W.W.G. 4C943</li> </ul> 
<p><b>350 CFM STOCK NO. 9466</b></p> <ul style="list-style-type: none"> <li>• 1/10-115-60/50-1-1570/1320</li> <li>• AMPS 3.0-2.8 • Sleeve Bearing</li> <li>• Replaces: W.W.G. 4C444</li> </ul> 	<p><b>400 CFM STOCK NO. 9448</b></p> <ul style="list-style-type: none"> <li>• 1/10-120-60-1-3000 • AMPS 3.8</li> <li>• Sleeve Bearing • Plastic Double Blower</li> </ul> 	<p><b>455 CFM STOCK NO. 9478</b></p> <ul style="list-style-type: none"> <li>• 1/10-115-60/50-1-1550/1200</li> <li>• AMPS 1.5 • PSC • Two-Speed</li> <li>• Capacitor Included • Replaces: Fasco A455</li> </ul> 	<p><b>460 CFM STOCK NO. 460</b></p> <ul style="list-style-type: none"> <li>• 1/12-115-60/50-1-1550/1345</li> <li>• AMPS 2.7/3.3 • Sleeve Bearing</li> <li>• Replaces: Fasco B45267, W.W.G. 4C448</li> </ul> 
<p><b>460 CFM STOCK NO. 9412</b></p> <ul style="list-style-type: none"> <li>• 1/15-230-60/50-1-1550/1300</li> <li>• AMPS 1.6/1.18</li> <li>• Sleeve Bearing • Replaces: W.W.G. 5C507</li> </ul> 	<p><b>495 CFM STOCK NO. 9465</b></p> <ul style="list-style-type: none"> <li>• 1/10-115-60/50-1-1570/1300</li> <li>• AMPS 3.4/3.8</li> <li>• Sleeve Bearing</li> <li>• Replaces: W.W.G. 4C445A</li> </ul> 	<p><b>500 CFM STOCK NO. 9491</b></p> <ul style="list-style-type: none"> <li>• 1/10-115-60/50-1-1550/1200</li> <li>• AMPS 3.5/2.2 • Sleeve Bearing</li> <li>• Two-Speed • Replaces: Fasco 50769-D500</li> </ul> 	<p><b>760/545 CFM STOCK NO. 9459</b></p> <ul style="list-style-type: none"> <li>• 1/5-115-60/50-1-1450/1200 • AMPS 3.2</li> <li>• PSC • Two-Speed • Capacitor Included</li> <li>• Replaces: W.W.G. 5C508</li> </ul> 
<p><b>1000 CFM STOCK NO. 9477</b></p> <ul style="list-style-type: none"> <li>• 1/4-115/230-60-1-1100/950</li> <li>• AMPS 4.0/2.0 • Two-Speed</li> <li>• PSC • Replaces: Fasco A1000</li> </ul> 			

**Note:**

1. Item to be discontinued when stock is depleted  
 For mounting dimensions see pages 23-25, for CFM data see pages 26-27

# OEM Direct Replacement Centrifugal Blowers

<p><b>Armstrong Air</b>  <b>85 CFM STOCK NO. 9495</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-1-3000 • AMPS 1.2</li> <li>• Sleeve Bearing • Replaces: JA1N111, Armstrong Air, 41445-001</li> </ul> 	<p><b>Armstrong Air</b>  <b>90 CFM STOCK NO. 9429</b></p> <ul style="list-style-type: none"> <li>• 1/25-115-60-1-3000 • AMPS 1.4</li> <li>• Sleeve Bearing • Includes Plug and Lead Assembly • Replaces: UE JAIN106NS, Armstrong Air 40718B1</li> </ul>  <p>Note: 1</p>	<p><b>Armstrong Air</b>  <b>105 CFM STOCK NO. 9430</b></p> <ul style="list-style-type: none"> <li>• 1/30-208-230-60-1-3000 • AMPS 0.6</li> <li>• Ball Bearing • Replaces: UE JB1N075NS,</li> </ul> 	<p><b>Bradford White</b>  <b>150 CFM STOCK NO. 9458</b></p> <ul style="list-style-type: none"> <li>• 1/25-115-60-1-3300 • AMPS 1.8</li> <li>• Sleeve Bearing • Replaces: Fasco A149, 7021-7761</li> </ul> 
<p><b>Consolidated Industries</b>  <b>90 CFM STOCK NO. 9619</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-3200 • AMPS 1.35</li> <li>• Sleeve Bearing • Replaces: JAIN107, Consolidated Industries 490950, 4246100</li> </ul> 	<p><b>Consolidated Industries</b>  <b>90 CFM STOCK NO. 9620</b></p> <ul style="list-style-type: none"> <li>• 1/20-115-60-3200 • AMPS 1.73</li> <li>• Sleeve Bearing • Replaces: JAIN114, Consolidated Industries 422030, 4246101</li> </ul> 	<p><b>Consolidated Industries</b>  <b>90 CFM STOCK NO. 9621</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-3200 • AMPS 1.35</li> <li>• Sleeve Bearing • Replaces: JAIN117, Consolidated Industries 430580, 4311200</li> </ul> 	<p><b>Consolidated Industries</b>  <b>90 CFM STOCK NO. 9622</b></p> <ul style="list-style-type: none"> <li>• 1/20-115-60-3200 • AMPS 1.73</li> <li>• Sleeve Bearing • Replaces: JAIN118, Consolidated Industries 430590, 4311201</li> </ul> 
<p><b>Consolidated Industries</b>  <b>95 CFM STOCK NO. 959</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-1-3300 • AMPS 0.9</li> <li>• Sleeve Bearing • Special mounting holes</li> <li>• Lead and plug assembly included</li> <li>• Replaces: UE JA1P082, Consolidated 401570</li> </ul> 	<p><b>Consolidated Industries</b>  <b>105 CFM STOCK NO. 960</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-1-3300 • AMPS 1.41</li> <li>• Sleeve Bearing • Replaces: UE JA1P090, Consolidated 401450</li> </ul> 	<p><b>Evcon</b>  <b>100 CFM STOCK NO. 961</b></p> <ul style="list-style-type: none"> <li>• 1/50-115-60-1-3300 • AMPS 0.9</li> <li>• Sleeve Bearing • Direct OEM Replacement</li> <li>• Lead and plug assembly included</li> <li>• Replaces: UE JA1P092, Evcon 2702-3201A</li> </ul> 	<p><b>Fedders</b>  <b>159 CFM STOCK NO. 996</b></p> <ul style="list-style-type: none"> <li>• 1/40-230-60-1-1550 • AMPS 0.5</li> <li>• Ball Bearing • OEM Replacement</li> <li>• Replaces: Fasco A159, Fedders 11-7096, Johnstone S88-514</li> </ul>  <p>Note: 1</p>
<p><b>Fedders</b>  <b>160 CFM STOCK NO. 9479</b></p> <ul style="list-style-type: none"> <li>• 1/35-230-60-1-1600 • AMPS 0.6</li> <li>• Ball Bearing • Includes Mounting Flange</li> <li>• Replaces: Fasco A161 • 8353920103</li> </ul>  <p>Note: 1</p>	<p><b>Goodman</b>  <b>100 CFM STOCK NO. 577</b></p> <ul style="list-style-type: none"> <li>• 1/50-115-60-1-3000 • AMPS 1.0</li> <li>• Sleeve Bearing • Replaces: Rheem 21504-03-04, 21496-03-01, Goodman B185900 Fasco A079, 7021-6804, UE JA1M106, JA1M137</li> </ul> 	<p><b>GSW</b>  <b>105 CFM STOCK NO. 967</b></p> <ul style="list-style-type: none"> <li>• 1/30-115-60-1-3000 • AMPS 1.71</li> <li>• Sleeve Bearing • Replaces: UE JA1M195, GSW, Fasco</li> </ul>  <p>Note: 1</p>	<p><b>Heil Quaker</b>  <b>60 CFM STOCK NO. 9453</b></p> <ul style="list-style-type: none"> <li>• 1/50-115-60/50-1-3000 • AMPS 0.9/1.1</li> <li>• Sleeve Bearing • Replaces: W.W.G. 5C085, Heil Quaker, Fasco 7021-5043, 7021-7102</li> </ul>  <p>Note: 1</p>
<p><b>Heil Quaker</b>  <b>64 CFM STOCK NO. 997</b></p> <ul style="list-style-type: none"> <li>• 1/100-115-60-1-3150 • AMPS .6</li> <li>• Sleeve Bearing • Replaces: Fasco A064, Heil Quaker 610672, Johnstone X89-455</li> </ul> 	<p><b>Heil Quaker</b>  <b>65 CFM STOCK NO. 776</b></p> <ul style="list-style-type: none"> <li>• 1/50-230-60-1-3200 • AMPS .4</li> <li>• Sleeve Bearing • Replaces: Fasco A151, Heil Quaker/Intercity Products No. HQ1050144UN, Whirlpool</li> </ul> 	<p><b>Heil Quaker</b>  <b>75 CFM STOCK NO. 9446</b></p> <ul style="list-style-type: none"> <li>• 1/50-208-230-60-1-3000 • AMPS .61</li> <li>• Sleeve Bearing • Replaces: Fasco A148, 7021-7617</li> </ul> 	<p><b>Heil Quaker</b>  <b>90 CFM STOCK NO. 582</b></p> <ul style="list-style-type: none"> <li>• 1/40-115/230-60-1-3000</li> <li>• AMPS 1.0/0.5 • Ball Bearing • Replaces: Arkla, Tappan S.J.C, Heil-Quaker No. HQ601073UN, Janitrol 11429-32, Fasco A073</li> </ul> 

**Note:**

1. Item to be discontinued when stock is depleted  
 For mounting dimensions see pages 23-25, for CFM data see pages 26-27