

## SELECTING A MOTOR

Although selecting a replacement motor isn't a science, there are rules, and rules of thumb, that will provide you with a suitable replacement motor. It should be mentioned that the best method for selecting a replacement motor is to follow the OEM recommendation. It usually takes only a few minutes to select a replacement motor. Things you should know about the original motors are:

**1. FRAME SIZE OR SHELL DIAMETER**

For example, many HVAC motors are 48 frame, with a body diameter of approximately 5-5/8 inches.

**2. VOLTAGE AND NUMBER OF PHASES**

Motors will either be single or three phase. The voltage will be one of the following:  
 120V (also commonly referred to as 110V or 115V)  
 208V (also commonly referred to as 200V)  
 230V (also commonly referred to as 220V or 240V)  
 460V (also commonly referred to as 440V or 480V)  
 575V (also commonly referred to as 600V)

**3. HORSEPOWER AND FULL LOAD AMPS (FLA)**

For smaller motors used in HVAC equipment, horsepower ratings are not an absolute reference. When determining a motor's strength, it is suggested that a number of factors including FLA and physical stack height also be considered.

**4. SPEED (RPM)** The number of poles (windings) in a motor determines the no load high speed rpm as shown below. The actual speed of the motor will vary based on the fan or blower load, and the horsepower.

2 poles – 3450 rpm	6 poles – 1075 rpm
4 poles – 1725 rpm	8 poles – 825 rpm

**5. NUMBER OF SPEEDS** Motors will often have multiple speeds, particularly in the case of indoor blower motors. Different speeds may be necessary to adjust airflow for the specific installation, or for different operating modes.

**6. CAPACITOR** Most residential HVAC motors are single phase PSC type (Permanent Split Capacitor) and require a run capacitor to operate. The capacitor should always be replaced when replacing a motor. The original and replacement motor do not need to use the same capacitance value, simply use the capacitor recommended for the replacement motor. Note that some older motors are of the shaded pole design which do not use a capacitor. Three phase motors also do not use a run capacitor.

**7. SHAFT SIZE AND LENGTH** The shaft needs to be able to engage with the blower wheel or fan blade at the same location. For condenser fan blades in particular, it is important that the fan blade be able to mount at the same relative position related to the venturi ring or airflow may be effected.

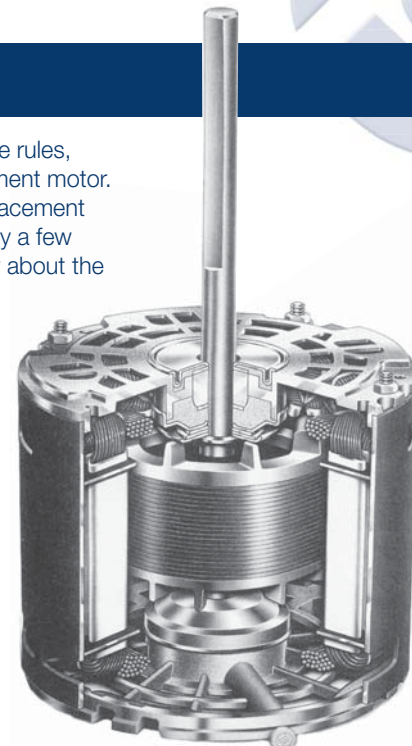
**8. WIRE LENGTH** For lead connected motors, the conductors need to be able to reach the connection points, or will need to be spliced in the field.

**9. MOTOR SHAFT ROTATION DIRECTION** Rotation direction in this catalog is referenced as "OSE" or "Opposite Shaft End." This means the direction is referenced as when looking at the butt end of the motor. Note: all 3-phase motors are reversible.

**10. APPLICATION / DRIVE TYPE** Most blower motors have open housings and are not suitable for outdoor use as condenser motors. Most small HVAC motors are "direct drive," with some larger applications requiring "belt drive."

**11. MOUNTING**

Shell-band – A ring fastened around the motor body  
 Thru-bolt – Bolts protruding through the motor end(s)  
 Shell-screw – Brackets mount with short screws into tapped holes in motor body  
 End-boss – Bolts or screws tapped into tapped or untapped recesses in motor end  
 Platform – Used for larger motors  
 Resilient Ring – A type of platform mounting using rubber rings on motor ends



## INDOOR BLOWER MOTORS (120V)



### TRIPSAVER Indoor Blower Motor (120V)

Designed with a high degree of versatility, these motors will cover the vast majority of service applications requiring a direct drive motor. Stock these reliable motors on your service truck and you'll virtually eliminate those unnecessary trips to get the right motor. A definite must for your service vehicle stocking.

Replaces most residential furnace motors; features include:

- Replaces 120V motors from 1/6 to 1/2 horsepower
- 4 speed taps / Reversible rotation
- Operates in all positions
- 36 inch leads with easy to use quick-connect flag terminals



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-23012-41	1/6 - 1/2	1075	4	120	1	60	Reversible	5/370, 7.5/370, or 10/370	7.30



### PROTECH W51 Indoor Blower Motors (120V)

A line of HVAC replacement motors, manufactured under strict quality standards at one of the world's largest and most modern motor production facilities. Every motor undergoes a variety of stringent tests before it leaves the assembly line.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
W51-14BAA3-02	1/4	1075	3	120	1	60	Reversible	10/370	3.8
W51-13BAA3-02	1/3	1075	3	120	1	60	Reversible	10/370	5
W51-12BAA3-02	1/2	1075	3	120	1	60	Reversible	10/370	6
W51-34BAA3-02	3/4	1075	3	120	1	60	Reversible	15/370	9.50



### PROTECH Wholesale Indoor Blower Motors (120V)

Designed to fit a variety of common aftermarket applications. Additionally, they are approved as OEM replacements for many Rheem, Ruud, and WeatherKing models; see unit parts lists for cross-reference.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-23013-31	1/3	1075	3	120	1	60	Reversible	5/370	6.80
51-23017-42	1/4 - 3/4	1075	4	120	1	60	Reversible	10/370, 12.5/370, or 15/370	9.50
51-23012-31	1/2	1075	3	120	1	60	Reversible	7.5/370	9.80



### US Motors Wholesale Indoor Blower Motors (120V)



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
1863	1/4	1075	3	120	1	60	Reversible	5/370	3.90
1864	1/3	1075	3	120	1	60	Reversible	7.5/370, 5/370	5.00
1865	1/2	1075	3	120	1	60	Reversible	10/370	7.40
8904	3/4	1075	3	120	1	60	Reversible	15/370	9.10



### US Motors RESCUE Indoor Blower Motors (120V)

You may not know what kind of motor you will need when you get to the job, but with the RESCUE motors on hand, you know you'll have one that will work.

- Replaces a range of different horsepower ratings and applications
- 36 inch leads



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
5460	1/6 - 1/2	1075	4	120	1	60	Reversible	10/370	7.30
5470	1/5 - 3/4	1075	4	120	1	60	Reversible	20/370	8.10

### TRIPSAVER 51-23012-41 Capacitor & Motor Speed Selection Chart for Various HP Applications

HP	SPEED TO USE	CAPACITOR (µF/V)	FLA
1/2	All Speeds	10/370	7.3
1/3	All Speeds	5/370, 7.5/370	6.9
1/4	Med-Hi; Med-Lo; Lo	5/370, 7.5/370	5.5
1/5	Med-Lo; Lo	5/370, 7.5/370	3.6
1/6	Lo	5/370, 7.5/370	2.8

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-11/16	9-11/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	5-3/8	10-3/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-9/16	10-9/16	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-1/2	11-1/2	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-3/8	11-3/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-13/16	9-13/16	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-13/16	10-13/16	Shell-band,Shell-screw	Ball	Blower	Direct Drive
1/2	5-5/8	5	5-1/4	10-1/4	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-7/8	10-3/8	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-1/8	10-11/16	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	6	10-3/8	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	5-31/32	10-13/32	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-3/4	9-3/4	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-1/8	11-5/8	Resilient Ring,Shell-band,Thru-bolt	Ball	Blower	Direct Drive

## INDOOR BLOWER MOTORS (120V)

### OEM Indoor Blower Motors (120V)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-21627-01	1/8	825	2	120	1	60	CCW	7.5/370	1.80
51-23101-01	1/8	825	2	120	1	50,60	CCW	7.5/370	2.80
51-27210-01	1/6	825	2	120	1	60	CCW	10/370	3.20
51-20169-02	1/6	1075	2	120	1	60	CCW	5/370	3.30
51-23015-91	1/5	1075	3	120	1	60	CCW	10/370	3.10
51-102175-01	1/5	1075	2	120	1	60	CCW	10/370	1.30
51-102175-02	1/5	1075	2	120	1	60	CCW	5/370	2.60
51-23101-02	1/4	825	2	120	1	50,60	CCW	10/370	4
51-27210-02	1/4	825	2	120	1	60	CCW	20/370	4.50
51-21628-01	1/4	825	2	120	1	60	CCW	10/370	4.50
51-104380-01	1/4	1075	4	120	1	60	CCW	7.5/370	4.0
51-23014-31	1/4	1075	3	120	1	60	Reversible	5/370	4.70
51-102175-03	1/4	1075	2	120	1	60	CCW	12.5/370	3.40
51-104939-01	1/3	825	4	120	1	60	CCW	20/370	5.7
51-23101-03	1/3	825	2	120	1	50,60	CCW	15/370	5.60
51-27210-03	1/3	825	2	120	1	60	CCW	20/370	7.20
51-102175-04	1/3	1075	2	120	1	60	CCW	15/370	5.30
51-23102-04	1/2	825	1	120	1	50,60	CCW	20/370	6.80
51-27210-04	1/2	825	1	120	1	60	CCW	20/370	9.90
51-102424-01	1/2	1075	4	120	1	60	CCW	7.5/370	5.80
51-102994-03	1/2	1075	4	120	1	60	CCW	7.5/370	5.80
51-24042-02	1/2	1075	4	120	1	60	CCW	7.5/370	6
51-102500-01	1/2	1075	4	120	1	60	CCW	7.5/370	6.3
51-104671-01	1/2	1075	4	120	1	60	CCW	7.5/370	6.3
51-24070-01	1/2	1075	4	120	1	60	CCW	15/370	7.10
51-24070-02	1/2	1075	4	120	1	60	CCW	7.5/370	7.10
51-26002-01	1/2	1075	4	120	1	60	CCW	7.5/370	7.1
51-104940-02	1/2	1075	4	120	1	60	CCW	20/370	7.5
51-104940-01	1/2	1075	4	120	1	60	CCW	20/370	7.8
51-103243-01	1/2	1075	4	120	1	60	CCW	15/370	8
51-22858-01	1/2	1075	3	120	1	60	CCW	7.5/370	5.80
51-102994-02	1/2	1075	3	120	1	60	CCW	7.5/370	6.30
51-24272-01	1/2	1075	3	120	1	60	CCW	15/370	7.90
51-24145-01	1/2	1075	3	120	1	60	CCW	15/370	8
51-102175-05	1/2	1075	2	120	1	60	CCW	20/370	7
51-102994-01	1/2	1075	1	120	1	60	CCW	7.5/370	5.80
51-24043-03	3/4	1075	4	120	1	60	CCW	15/370	7.30
51-104342-01	3/4	1075	4	120	1	60	CCW	20/370	8.3
51-104941-01	3/4	1075	4	120	1	60	CCW	20/370	8.4
51-104941-02	3/4	1075	4	120	1	60	CCW	20/370	9.3
51-24043-02	3/4	1075	4	120	1	60	CCW	15/370	9.40
51-25023-01	3/4	1075	4	120	1	60	CCW	15/370	9.50
51-102175-06	3/4	1075	2	120	1	60	CCW	20/370	8.10

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	4-7/16	4-1/4	8-5/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-1/16	6-13/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-9/16	4-1/4	6-4/5	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3	3-13/16	6-13/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	4-15/16	2-1/2	5	7-5/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-1/4	7	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-1/2	7-1/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-5/16	7-13/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	4-1/2	7-4/5	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-7/16	4-13/16	9	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	4-11/16	9-11/32	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	4-1/4	9-1/4	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/2	4-1/2	7-1/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/4	5-1/16	8-5/16	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	2-3/16	4-9/16	6-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/16	5-1/4	7-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/4	5	7-1/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/4	5-1/4	8-1/2	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	5-1/2	8-4/5	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-7/16	4-7/16	7-7/8	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-39/64	3-1/2	4-3/4	8-1/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-39/64	3-1/2	4-3/4	8-1/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-13/16	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	4-11/16	9-11/32	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-3/4	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-3/4	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-13/16	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	5-9/16	9-1/16	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	4	5-9/16	9-1/2	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	3-3/4	5-1/4	9	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-3/4	8-1/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-3/4	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-3/4	5-1/4	9-1/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-3/4	5-1/4	9-1/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/4	5-1/4	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	4-3/4	8-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-39/64	3-3/4	5-11/16	9-1/2	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-3/4	5-3/16	10-3/32	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/2	5-9/16	9-1/16	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	3-1/2	5-9/16	9-1/16	Shell-band	Ball	Blower	Direct Drive
1/2	5-39/64	3-3/4	5-11/16	9-1/2	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-3/4	5-13/16	9-9/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	5-1/2	9-1/2	Shell-band	Sleeve	Blower	Direct Drive

## INDOOR BLOWER MOTORS (208/230V)



### TRIPSAVER Indoor Blower Motor (208/230V)



Designed with a high degree of versatility, these motors will cover the vast majority of service applications requiring a direct drive motor. Stock these reliable motors on your service truck and you'll virtually eliminate those unnecessary trips to get the right motor. A definite must for your service vehicle stocking.

Replaces most residential furnace motors; features include:

- Replaces 208-230V motors from 1/6 to 1/2 horsepower
- 36 inch leads with easy to use quick-connect plug terminals
- 4 speed taps / Reversible rotation
- Operates in all positions

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-23022-41	1/6 - 1/2	1075	4	208,230	1	60	Reversible	5/370, 7.5/370, or 10/370	3.60



### PROTECH W51 Indoor Blower Motors (208/230V)



A line of HVAC replacement motors, manufactured under strict quality standards at one of the world's largest and most modern motor production facilities. Every motor undergoes a variety of stringent tests before it leaves the assembly line.

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
W51-14BJA3-02	1/4	1075	3	208,230	1	60	Reversible	10/370	1.60
W51-13BJA3-02	1/3	1075	3	208,230	1	60	Reversible	10/370	2.2
W51-12BJA3-02	1/2	1075	3	208,230	1	60	Reversible	10/370	2.70
W51-34BJA3-02	3/4	1075	3	208,230	1	60	Reversible	15/370	4



### PROTECH Wholesale Indoor Blower Motors (208/230V)



Designed to fit a variety of common aftermarket applications. Additionally, they are approved as OEM replacements for many Rheem, Ruud, and WeatherKing models; see unit parts lists for cross-reference.

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-23024-31	1/4	1075	3	208,230	1	60	Reversible	5/370	2.00
51-23023-31	1/3	1075	3	208,230	1	60	Reversible	5/370	3.10
51-23022-31	1/2	1075	3	208,230	1	60	Reversible	7.5/370	4.90
51-23027-31	3/4	1075	3	208,230	1	60	Reversible	10/370	6.00



### US Motors Wholesale Indoor Blower Motors (208/230V)



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
1971	1/4	1075	3	208,230	1	60	Reversible	5/370, 10/370	1.80
1972	1/3	1075	3	208,230	1	60	Reversible	5/370	2.40
1973	1/2	1075	3	208,230	1	60	Reversible	7.5/370	3.30
8905	3/4	1075	3	208,230	1	60	Reversible	10/370	4.60



### US Motors RESCUE Indoor Blower Motors (208/230V)



You may not know what kind of motor you will need when you get to the job, but with the RESCUE motors on hand, you know you'll have one that will work.

- Replaces a range of different horsepower ratings and applications
- 36 inch leads

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
5461	1/6 - 1/2	1075	4	208,230	1	60	Reversible	10/370	3.60
5469	1/9 - 1/3	825	4	208,230	1	60	Reversible	7.5/370	2.40
5471	1/5 - 3/4	1075	4	208,230	1	60	Reversible	20/370	4.20

### TRIPSAVER 51-23022-41 Capacitor & Motor Speed Selection Chart for Various HP Applications

HP	SPEED TO USE	CAPACITOR (μF/V)	FLA
1/2	All Speeds	10/370	7.3
1/3	All Speeds	5/370, 7.5/370	6.9
1/4	Med-Hi; Med-Lo; Lo	5/370, 7.5/370	5.5
1/5	Med-Lo; Lo	5/370, 7.5/370	3.6
1/6	Lo	5/370, 7.5/370	2.8

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-5/8	9-5/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	5-3/8	10-3/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-9/16	10-9/16	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-3/8	11-3/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-5/8	11-5/8	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-1/4	9-1/4	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	4-3/4	9-3/4	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-1/4	10-1/4	Shell-band,Shell-screw,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-9/16	10-9/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-7/8	10-3/8	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	4-7/8	10-3/8	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	5-7/8	11-3/8	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	5-31/32	10-13/32	Resilient Ring,Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-3/4	9-3/4	Resilient Ring,Shell-band,Shell-screw,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	5-5/16	9-13/16	Resilient Ring,Shell-band,Shell-screw,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6-1/8	11-5/8	Resilient Ring,Shell-band,Shell-screw,Thru-bolt	Ball	Blower	Direct Drive

## INDOOR BLOWER MOTORS (208/230V)

### OEM Indoor Blower Motors (208/230)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-21542-01	1/8	825	2	208,230	1	60	CCW	5/370	0.80
51-23102-05	1/8	825	2	208,220,230	1	50,60	CCW	5/370	1.40
51-100344-01	1/6	825	2	208,230	1	60	CCW	7.5/370	1.60
51-102500-07	1/5	1075	2	208,230	1	60	CCW	10/370	1.20
51-101728-08	1/5	1075	2	208,230	1	60	CCW	10/370	1.0
51-102177-01	1/5	1075	2	208,230	1	60	CCW	10/370	0.90
51-23102-25	1/5	1075	2	208,230	1	60	CCW	3/370	2
51-101728-01	1/5	1075	2	208,230	1	60	CCW	10/370	0.80
51-101728-09	1/5	1075	2	208,230	1	60	CCW	15/370	1.5
51-21543-01	1/4	825	2	208,230	1	60	CCW	7.5/370	2
51-23102-06	1/4	825	2	208,220,230	1	50,60	CCW	7.5/370	2
51-27211-02	1/4	825	2	208,220,230	1	50,60	CCW	10/370	2.10
51-23102-26	1/4	1075	3	208,230	1	60	CCW	7.5/370	2.40
51-100837-01	1/4	1075	2	208,230	1	60	CCW	10/370	1.40
51-20896-01	1/4	1075	2	208,230	1	60	CCW	5/370	1.80
51-102500-08	1/4	1075	2	208,230	1	60	CCW	12.5/370	1.25
51-23102-07	1/3	825	2	208,220,230	1	50,60	CCW	10/370	2.80
51-27211-03	1/3	825	2	208,220,230	1	50,60	CCW	15/370	3.20
51-21756-01	1/3	825	2	208,230	1	60	CCW	10/370	2.60
51-23102-27	1/3	1075	3	208,230	1	60	CCW	15/370	3.40
51-101728-04	1/3	1075	2	208,230	1	60	CCW	15/370	1.90
51-100837-02	1/3	1075	2	208,230	1	60	CCW	7.5/370	1.30
51-21757-01	1/2	825	1	208,230	1	60	CCW	15/370	3.40
51-27211-04	1/2	825	1	208,220,230	1	50,60	CCW	25/370	2.90
51-23102-08	1/2	825	1	208,220,230	1	50,60	CCW	15/370	3.40
51-23102-28	1/2	1075	3	208,230	1	60	CCW	20/370	3.90
51-23609-04	1/2	1075	3	208,230	1	60	CCW	10/370	2.40
51-23679-01	1/2	1075	3	208,230	1	60	CW	10/370	2.70
51-100837-03	1/2	1075	2	208,230	1	60	CCW	15/440	2.40
51-100837-04	1/2	1075	2	208,230	1	60	CCW	20/370	2.50
51-101728-05	1/2	1075	2	208,230	1	60	CCW	20/370	3.40
51-23555-02	3/4	1075	3	208,230	1	60	CW	15/370	5.40
51-23650-01	3/4	1075	3	208,230	1	60	CCW	10/440	4.40
51-101728-06	3/4	1075	2	208,230	1	60	CCW	20/370	3.20
51-21898-01	3/4	1075	2	208,230	1	60	CCW	10/370	6.30
51-100837-05	3/4	1075	2	208,230	1	60	CCW	20/370	3.10
51-100837-07	3/4	1075	2	208,230	1	60	CCW	25/440	5.80
51-101728-07	3/4	1075	2	208,230	1	60	CCW	20/370	2.70



SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	4	4-1/4	9-1/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-9/16	4-1/4	6-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-5/8	4-1/16	6-11/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-9/16	7-5/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-39/64	2-3/4	4-1/4	7	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-5/16	7-1/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-9/16	4-1/4	6-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	4-1/4	7-1/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-39/64	2-3/4	4-1/2	7-1/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	4-1/2	8-3/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	4-1/2	7-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	4-1/2	7-13/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	4-1/2	7-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	4-1/4	8-3/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/2	4-1/16	6-9/16	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/2	4-9/16	7-1/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2	4-3/4	6-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/16	5-1/4	7-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	4-9/16	8-9/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2	4-3/4	6-3/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/4	5-1/4	7-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	4-1/4	8-3/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-5/16	4-13/16	9-1/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	5-1/2	8-13/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/4	5	8-1/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-1/4	5-1/4	8-1/2	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3	4-1/2	7-9/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/2	5-1/4	8-5/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	4-1/2	9	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	5	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/4	5-1/4	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/4	6-13/16	9-5/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3	5-3/4	8-13/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4	5-1/2	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3	5-5/16	8-15/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	5-3/4	10-1/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	6	10-1/2	Shell-band	Ball	Blower	Direct Drive
1/2	5-39/64	5	6	11	Shell-band	Sleeve	Blower	Direct Drive

## INDOOR BLOWER MOTORS (460V)



### OEM Indoor Blower Motors (460V)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
51-27212-01	1/3	825	2	460	1	60	CCW	15/370	1.50
51-23101-10	1/3	825	2	460	1	60	CCW	7.5/370	1.40
51-102182-01	1/3	1075	2	460	1	60	CCW	15/370	1.10
51-23101-11	1/2	825	1	460	1	60	CCW	10/370	1.70
51-27212-02	1/2	825	1	460	1	50,60	CCW	20/370	1.90
51-23679-02	1/2	1075	3	460	1	60	CW	10/370	1.50
51-102182-02	1/2	1075	2	460	1	60	CCW	20/370	1.60
51-100837-08	1/2	1075	2	380-415,460	1	50,60	CCW	20/370	1.20
51-102021-01	1/2	1075	3	460	1	60	CCW	10/370	1.20
51-102182-03	3/4	1075	2	460	1	60	CCW	20/370	1.70
51-102021-02	3/4	1075	3	460	1	60	CCW	10/370	2.30
51-102182-04	3/4	1075	2	460	1	60	CCW	20/370	1.60
51-22280-01	3/4	1075	1	460	1	60	CCW	10/370	2.40
51-100837-10	3/4	1075	2	380-415,460	1	50,60	CCW	25/370	2.50
51-23555-03	3/4	1075	2	460	1	60	CW	15/370	2.70

## INDOOR BLOWER MOTORS – PLATFORM MOUNT



### US Motors Indoor Blower Motors – Platform Mount (Single Phase)



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 120V (A)
8100	1/3	1725	1	120	1	60	Reversible	N/A	6.40
8200	1/2	1725	1	120	1	60	Reversible	N/A	8.70
1893	3/4	1725	1	120,208,230	1	60	Reversible	N/A	11.40
430	3/4	3450	1	120,208,230	1	60	Reversible	N/A	9.20



### OEM Indoor Blower Motors – Platform Mount (Single Phase)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
51-23571-03	3/4	1725	1	208,230	1	60	CCW	15/370	3.40
51-40638-01	1	3450	1	120,208,230	1	60	CW	N/A	5.80
51-41949-01	2	3450	1	120,208,230	1	60	CW	N/A	9.50



### OEM Indoor Blower Motors – Platform Mount (Three Phase)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)
51-42579-01	1/2	1725	1	208,230,460	3	60
51-22241-02	3/4	1725	1	575	3	60
51-21909-01	3/4	1725	1	208,230,460	3	60
51-42177-09	1	1725	1	575	3	60
51-41936-01	1	1725	1	208,230,460	3	60

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	2-1/16	5-1/4	7-5/16	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-3/16	5-1/16	7-1/4	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/4	5-1/2	7-3/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	5-5/16	8-5/8	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-5/16	5-1/2	8-4/5	Shell-band,Shell-screw	Sleeve	Blower	Direct Drive
1/2	5-5/8	2-1/2	5-1/4	8-5/8	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/4	5-1/4	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	5-15/64	9-47/64	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-39/64	3	4-1/2	7-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3-3/4	5-3/4	9-1/2	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-39/64	3	5-47/64	8-3/4	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	5	6	11	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	3	5-5/16	8-15/16	Shell-band	Sleeve	Blower	Direct Drive
1/2	5-5/8	4-1/2	6	10-1/2	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	2-3/4	6-13/16	9-5/8	Shell-band	Sleeve	Blower	Direct Drive

FLA AT 230 (V)	SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
—	1/2	5-5/8	1-1/2	8-1/8	9-3/8	Platform	Sleeve	Blower	Belt Drive
—	1/2	5-5/8	1-1/2	8-1/2	10	Platform	Sleeve	Blower	Belt Drive
5.7	5/8	6-1/2	1-7/8	8-7/8	10-3/4	Platform	Ball	Blower	Belt Drive
4.6	1/2	5-5/8	1-1/2	8-7/8	10-3/8	Platform	Sleeve	Blower	Belt Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
5/8	7	2	8	10	Platform	Ball	Blower	Belt Drive
5/8	5-1/2	1-7/8	9-5/8	11-1/2	Platform	Sleeve	Blower	Belt Drive
5/8	6-1/2	2	12-3/16	14-1/4	Platform	Ball	Blower	Belt Drive

ROTATION DIRECTION (OSE)	SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
Reversible	5/8	5-5/8	1-7/8	8-3/8	10-5/16	Platform	Ball	Blower	Belt Drive
Reversible	5/8	5-5/8	1-7/8	8-7/8	10-3/4	Platform	Ball	Blower	Belt Drive
Reversible	5/8	5-5/8	1-7/8	8-7/8	10-3/4	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-1/2	2	10-11/16	12-11/16	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-1/2	1-7/8	8-7/8	10-3/4	Platform	Ball	Blower	Belt Drive

(continued on next page)

## INDOOR BLOWER MOTORS – PLATFORM MOUNT



### OEM Indoor Blower Motors – Platform Mount (Three Phase) – CONTINUED

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)
51-42368-02	1	1725	1	208,230,380-415,460	3	60
51-41936-04	1-1/2	1725	1	575	3	60
51-41936-02	1-1/2	1725	1	208,230,460	3	60
51-41936-03	1-1/2	1725	1	208,230,460	3	60
51-42369-02	1-1/2	1725	1	208,220,230,380-415,460	3	50,60
51-41727-01	1-1/2	3450	1	230,460	3	60
51-42178-09	2	1725	1	575	3	60
51-42536-02	2	1725	1	575	3	60
PD510026	2	1725	1	208,230,460	3	60
51-102826-14	2	1725	1	208,230,380-415,460	3	50,60
51-42537-04	2	1725	1	208,220,230,380-415,460	3	50,60
51-42536-01	2	1725	1	208,220,230,380-415,460	3	50,60
51-42537-02	3	1725	1	575	3	60
51-102826-15	3	1725	1	208,230,380-415,460	3	50,60
51-42537-01	3	1725	1	208,220,230,380-415,460	3	50,60
51-102826-08	5	1725	1	575	3	60
PD510020	5	1725	1	208,230,460	3	50,60
51-102826-06	5	1725	1	208,230,380-415,460	3	50,60
51-102826-13	7-1/2	1725	1	575	3	60
51-102826-09	7-1/2	1725	1	575	3	60
51-42498-11	7-1/2	1725	1	575	3	60
51-102826-07	7-1/2	1725	1	208,230,380-415,460	3	50,60
51-102826-12	7-1/2	1725	1	208,230,380-415,460	3	50,60
51-102826-11	10	1725	1	575	3	60
51-102826-10	10	1725	1	208,230,380-415,460	3	50,60

## INDOOR BLOWER MOTORS



### Genteq Evergreen Indoor Blower Motors (120/208/230V)



The Evergreen is the world's first retrofit ECM blower motor. Contractors can now replace a PSC motor with the Evergreen and give consumers the comfort, efficiency and better airflow control of ECM, in an easy-to-install replacement motor. Note, the Evergreen is not designed to be a generic replacement for a failed ECM, but rather as a substitute for a PSC in an existing HVAC system.

- Time Saver: The Evergreen is suitable for a wide variety of aftermarket applications, can be retrofit for many 48 frame indoor blower motors
  - Multi-voltage: suitable for 120V, 208V and 230V applications
  - 1/2 horsepower Evergreen replaces 6-Pole PSC motors from 1/5 to 1/2 horsepower
  - 1 horsepower Evergreen replaces 6-Pole

- PSC motors from 1/2 to 1 horsepower
- IAQ Compatible: The Evergreen will work well with IAQ products, such as high-efficiency air cleaners and HEPA filters with higher static pressure resistance
- Energy Saver: The Evergreen uses up to 25% fewer watts in operating mode and up to 74% fewer watts than a PSC motor in constant fan
- Other Features
  - Rotation Sensing Technology™ automatically configures motor to rotate in the correct direction
  - 4 speed selections for heating and cooling
  - Low speed constant fan
  - Filtration/Zoning system enabler
  - 2-year limited warranty

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	FLA AT 120V (A)
5SME39HXL110	1/2	1075	Variable	120,208,230	1	50,60	Reversible	4.00
5SME39SXL111	1	1075	Variable	120,208,230	1	50,60	Reversible	6.70

ROTATION DIRECTION (OSE)	SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
Reversible	5/8	6-1/2	2-1/4	10-1/16	12-3/8	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-27/64	2-3/8	10	12-13/32	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-1/2	1-7/8	9-1/2	11-3/8	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-27/64	2-3/8	9-1/2	11-7/8	Platform	Ball	Blower	Belt Drive
Reversible	5/8	6-1/2	1-3/4	10-23/32	13	Platform	Ball	Blower	Belt Drive
Reversible	5/8	5-5/8	2	9-13/16	11-7/8	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-9/32	9-23/32	12	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-7/16	2-3/8	11-5/16	13-9/16	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-1/4	10-3/4	13	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-5/16	10-11/16	13	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-1/4	11-1/8	13-3/8	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-7/16	2-3/8	11-5/16	13-9/16	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-1/4	10-1/16	13-1/8	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-5/16	10-11/16	13	Platform	Ball	Blower	Belt Drive
Reversible	7/8	6-1/2	2-1/4	11-1/16	13-5/16	Platform	Ball	Blower	Belt Drive
Reversible	1-1/8	8-3/8	2-3/4	11-11/16	14-3/16	Platform	Ball	Blower	Belt Drive
Reversible	1-1/8	9	2-3/4	11-1/2	14-1/4	Platform	Ball	Blower	Belt Drive
Reversible	1-1/8	8-3/8	2-3/4	11-11/16	14-3/16	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-1/2	3-3/8	14-43/64	18-1/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-1/2	3-3/8	15-5/32	18-17/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-17/32	3-1/4	14-1/32	17-9/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-31/32	3-3/8	15-29/32	19-9/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-1/2	3-3/8	14-21/32	18-1/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-1/2	3-3/8	15-5/32	18-17/32	Platform	Ball	Blower	Belt Drive
Reversible	1-3/8	9-31/32	3-3/8	15-5/32	18-17/32	Platform	Ball	Blower	Belt Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE	CATALOG NO
1/2	5-5/8	4-29/32	6-11/32	11-1/4	Shell-band	Ball	Blower	Direct Drive	6005
1/2	5-5/8	4-29/32	7-27/32	10-3/4	Shell-band	Ball	Blower	Direct Drive	6010

## INDOOR BLOWER MOTORS



### US Motors RESCUE EcoTech Indoor Blower Motors (120/230V)

Drop-in replacement for PSC direct drive commercial and residential blower motors.

- Easily Installed - Installed like a PSC, except with capacitor
  - Multi-voltage: suitable for 120V and 230V applications
  - Available in a range of horsepower sizes
- Active Airflow Management - The advance motor control reacts to change in static pressure, helping to maintain airflow as vents are closed or the filter becomes dirty

- Quiet-Efficient Circulation Speed - With a low 600 RPM circulation speed, can cycle air continuously without the noise, draft or electricity cost of a PSC motor
- Energy Efficient - Up to 25% more electrically efficient at high speed compared to a standard blower motor.
- Other Features
  - 4 speed selections for heating and cooling
  - 2-year limited warranty



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	FLA AT 120V (A)
5522ET	1/3 - 1/5	—	Variable	120,208,230	1	60	—	—
5532ET	1/2 - 1/4	—	Variable	120,208,230	1	60	—	—
5542ET	3/4 - 1/3	—	Variable	120,208,230	1	60	—	—
5552ET	1 - 1/2	—	Variable	120,208,230	1	60	—	—

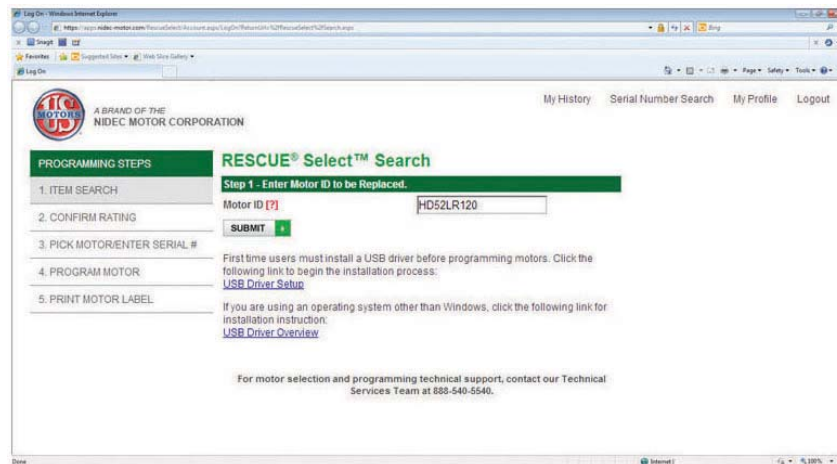
### US Motors RESCUE Select Indoor Blower Motors (120/230V)

The RESCUE Select is an ECM aftermarket motor that replaced OEM constant torque blower motors

- No need to wait for the OEM motor to be ordered, customized programming performed at the wholesaler
- Replaces X-13, Endura Pro and SelectTech constant torque ECM motors
- Patented high efficiency design with smooth, quiet start up
- Wired to OEM equipment using the existing

connection for ease of installation

- Direct OEM replacement – programmed torque values set to match OEM performance
- 6000V surge protection – more the double the protection of any OEM motors
- Fully potted electric module for superior moisture protection
- Motor and module technology create smooth, quiet speed changes
- Two-year limited warranty



PART NO	DESCRIPTION
6630RS	RESCUE Select Blower Motor (120V - 1/3 to 1/2 hp)
6631RS	RESCUE Select Blower Motor (208-230V - 1/3 to 1/2 hp)
6640RS	RESCUE Select Blower Motor (120V - 3/4 hp)
6641RS	RESCUE Select Blower Motor (208-230V - 3/4 hp)
6650RS	RESCUE Select Blower Motor (120V - 1 hp)
6651RS	RESCUE Select Blower Motor (208-230V - 1 hp)
KIT41	SelectTech / RESCUE Select Programming Module



SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	4-1/2	5-3/4	12-7/8	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	4-1/2	5-3/4	14-3/4	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	4-1/2	6-3/4	14-3/4	Shell-band	Ball	Blower	Direct Drive
1/2	5-5/8	4-1/2	7-1/2	14-3/4	Shell-band	Ball	Blower	Direct Drive

## OUTDOOR CONDENSER MOTORS (208/230V)



### TRIPSAVER Condenser Motor (208/230V)

Designed with a high degree of versatility, these motors will cover the vast majority of service applications requiring a direct drive motor. Stock these reliable motors on your service truck and you'll virtually eliminate those unnecessary trips to get the right motor. A definite must for your service vehicle stocking. Replaces most residential furnace motors; features include:

- Replaces 208-230V motors from 1/3 to 1/5 horsepower
- 2 speed taps/reversible rotation
- Operates in all positions
- 36 inch leads with easy to use quick-connect flag terminals



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
51-23053-21	1/6 - 1/3	1075	2	208,230	1	60	Reversible	5/370 (230V), 7.5/370 (208V)	2.60



### PROTECH W51 Condenser Motors (208/230V)

A line of HVAC replacement motors, manufactured under strict quality standards at one of the world's largest and most modern motor production facilities. Every motor undergoes a variety of stringent tests before it leaves the assembly line.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
W51-12CJA1-02	1/2	1075	1	208,230	1	60	Reversible	15/370	2.5
W51-13CJA1-02	1/3	1075	1	208,230	1	60	Reversible	10/370	1.7
W51-14CJA1-02	1/4	1075	1	208,230	1	60	Reversible	10/370	1.40
W51-MHCJJ1-02	1/5-1/3	825	1	208,230	1	60	Reversible	7.5/370	1.40
W51-16CJA1-02	1/6	1075	1	208,230	1	60	Reversible	10/370	1.20
W51-MHCJA1-02	1/6-1/3	1075	1	208,230	1	60	Reversible	10/370	1.30



### PROTECH Wholesale Condenser Motors (208/230V)

Designed to fit a variety of common aftermarket applications. Additionally, they are approved as OEM replacements for many Rheem, Ruud, and WeatherKing models; see unit parts lists for cross-reference.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
51-23055-12	1/5	825	1	208,230	1	60	Reversible	5/370	1.30
51-23055-11	1/5	1075	1	208,230	1	60	Reversible	3/370 (230V), 5/370 (208V)	1.30
51-23054-13	1/4	825	1	208,230	1	60	Reversible	5/370	1.80
51-23054-11	1/4	1075	1	208,230	1	60	Reversible	5/370	1.80
51-23053-11	1/3	1075	1	208,230	1	60	Reversible	5/370	1.75
51-23053-12	1/3	1075	1	208,230	1	60	Reversible	5/370	2.50
51-23052-11	1/2	1075	1	208,230	1	60	Reversible	7.5/370	2.90



### US Motors Wholesale Condenser Motors (208/230V)



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
1859	1/6	1075	1	208,230	1	60	Reversible	5/370	0.50
1860	1/4	1075	1	208,230	1	60	Reversible	5/370	1.70
3323	1/6 - 1/3	1075	1	208,230	1	60	Reversible	7.5/370	2.00
1861	1/3	1075	1	208,230	1	60	Reversible	7.5/370 (230V), 10/370 (208V)	2.10
1862	1/2	1075	1	208,230	1	60	Reversible	10/370	3.00
1868	3/4	1075	1	208,230	1	60	Reversible	10/370 (230V), 7.5/370 (208V)	4.50





SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	3-3/4	4-5/8	8-3/8	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	5-9/16	10-9/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-13/16	9-13/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-5/16	9-5/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	5-7/8	10-7/8	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-1/16	9-1/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-13/16	9-13/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	3-3/4	4-3/8	8-1/8	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	4-1/4	3-9/16	7-13/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-3/4	4-1/2	8-1/4	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-1/16	9-1/16	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	4-1/4	4	8-1/4	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-9/16	9-9/16	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	5	10	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	3-13/16	9-3/8	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-1/8	9-5/8	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	6-7/8	4-5/16	11	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	4-5/8	10-1/8	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	6	5-5/16	11-7/8	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	5-13/16	10-5/16	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive

## OUTDOOR CONDENSER MOTORS (208/230V)



### US Motors RESCUE Condenser Motors (208/230V)

You may not know what kind of motor you will need when you get to the job, but with the RESCUE motors on hand, you know you'll have one that will work.

- Replaces a range of different horsepower ratings and applications
- 48 inch leads



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
5464	1/6 - 1/3	825	2	208,230	1	60	Reversible	10/370	1.90
5462	1/6 - 1/3	1075	2	208,230	1	60	Reversible	7.5/370	2.60
5465	1/5 - 1/2	1075	2	208,230	1	60	Reversible	12.5/370	3.50



### US Motors Mojave 70C Condenser Motors (208/230V)

- Designed for 158°F (70°C) ambient / Class F insulation
- Special corrosion protection for longer life in humid environments
- 48 inch leads



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
1872H	1/8	825	1	208,230	1	60	Reversible	5/370	0.78
1859H	1/6	1075	1	208,230	1	60	Reversible	5/370	0.50
1873H	1/6	825	1	208,230	1	60	Reversible	5/370	1.10
1860H	1/4	1075	1	208,230	1	60	Reversible	5/370	1.70
1861H	1/3	1075	1	208,230	1	60	Reversible	7.5/370	2.10
1875H	1/3	825	1	208,230	1	60	Reversible	5/370	2.40
1862H	1/2	1075	1	208,230	1	60	Reversible	10/370	3.20
1870H	1/2	825	1	208,230	1	60	Reversible	10/370	3.30
1868H	3/4	1075	1	208,230	1	60	Reversible	10/370	4.70



### US Motors Mojave 70C RESCUE Condenser Motors (208/230V)

These motors combine the features of both the Emerson RESCUE and Mojave 70C motors into one series.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
1874H	1/8 - 1/4	825	1	208,230	1	60	Reversible	5/370	2.10
5440H	1/8 - 1/12	1075	1	208,230	1	60	Reversible	5/370	0.80
5465H	1/5 - 1/2	1075	2	208,230	1	60	Reversible	10/370 (230V), 12.5/370 (208V)	3
5441H	1/4 - 1/6	1075	1	208,230	1	60	Reversible	5/370	1.50
5462H	1/3 - 1/6	1075	2	208,230	1	60	Reversible	5/370	2.60
5464H	1/3 - 1/6	825	2	208,230	1	60	Reversible	7.5/370	1.90



### US Motors PEP High Efficiency 70C Condenser Motors (208/230V)

- Designed for 158°F (70°C) ambient / Class F insulation
- Patented design results in up to 15% lower watt usage
- 48 inch leads



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
1859PEP	1/6	1075	1	208,230	1	50,60	Reversible	5/370	0.90
1860PEP	1/4	1075	1	208,230	1	50,60	Reversible	5/370	1.40
1861PEP	1/3	1075	1	208,230	1	50,60	Reversible	7.5/370	2.00
1862PEP	1/2	1075	1	208,230	1	50,60	Reversible	10/370	2.50

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	5-1/4	10-1/4	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	4-5/8	9-5/8	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	5	5-1/4	10-1/4	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	6	4-1/16	10-19/32	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	3-13/16	9-3/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	4-1/8	10-5/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	4-1/8	10-5/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	4-5/8	11-1/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	5-1/16	11-19/32	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	5-1/4	11-7/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	5-13/16	12-3/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-7/8	12-3/8	Resilient Ring,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	6	4-1/4	10-7/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5	3	5	8	Shell-band,Shell-screw,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-5/8	10-1/4	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5	3	5-1/2	8-1/2	Shell-band,Shell-screw,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	4-5/8	9-5/8	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-1/4	10-1/4	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-1/16	9-1/16	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	4-5/8	9-5/8	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5/1/16	10-1/16	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-5/8	10-5/8	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive

## OUTDOOR CONDENSER MOTORS (208/230V)

### OEM Condenser Motors (208/230V)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 230V (A)
51-101774-14	1/12	825	1	208,230	1	60	CCW	3/370	0.36
51-100999-02	1/10	825	1	208,230	1	60	CCW	3/370	.75
51-102500-05	1/10	825	1	208,220	1	50,60	CCW	5/370	0.60
51-104691-02	1/10	825	1	208,230	1	60	CCW	3/370	0.65
51-101774-17	1/10	825	1	208,230	1	60	CCW	5/370	0.71
51-104692-01	1/10	1075	1	208,230	1	60	CCW	3/370	0.50
51-104691-01	1/10	1075	1	208,230	1	60	CCW	3/370	0.50
51-101774-21	1/10	1075	1	208,220,230	1	50,60	CCW	5/370	0.60
51-101774-20	1/10	1075	1	208,220,230	1	50,60	CCW	5/370	0.60
51-101774-15	1/8	825	1	208,230	1	60	CCW	5/370	0.68
51-100998-08	1/8	825	1	208,230	1	60	CCW	7.5/370	1
51-102008-17	1/8	1075	1	208,220,230	1	50,60	CCW	5/370	0.70
51-102008-18	1/8	1075	1	208,220,230	1	50,60	CCW	5/370	0.70
51-101774-23	1/8	1075	1	208,220,230	1	50,60	CCW	5/370	0.70
51-101774-22	1/8	1075	1	208,220,230	1	50,60	CCW	5/370	0.70
51-100998-27	1/6	825	1	208,230	1	60	CCW	5/370	0.60
51-101774-16	1/6	825	1	208,230	1	60	CCW	5/370	0.7
51-102500-03	1/6	825	1	208,220,230	1	50,60	CCW	5/370	0.80
51-101774-24	1/6	825	1	208,220,230	1	50,60	CCW	5/370	0.90
51-101774-13	1/6	825	1	208,230	1	60	CCW	7.5/370	1.0
51-100999-03	1/6	1075	1	208,220,230	1	50,60	CCW	3/370	.73
51-21854-17	1/6	1075	1	208,230	1	60	CCW	3/370	0.75
51-102500-02	1/6	1075	1	208,220,230	1	50,60	CCW	3/370	0.86
51-101514-03	1/6	1075	1	208,220,230	1	50,60	CCW	3/370	0.90
51-102500-04	1/5	825	1	208,220,230	1	50,60	CCW	10/370	1
51-101774-31	1/5	825	1	208,220,230	1	50,60	CCW	5/370	1
51-102008-08	1/5	825	1	208,220,230	1	50,60	CCW	5/370	1
51-21854-18	1/5	1075	1	208,230	1	60	CCW	3/370	1.25
51-100999-04	1/5	1075	1	208,220,230	1	50,60	CCW	3/370	1.30
51-102500-10	1/3	825	1	208,230	1	60	CCW	5/370	1.5
51-100998-30	1/3	1075	1	208,230	1	50,60	CCW	5/370	1.50
51-21853-21	1/3	1075	1	208,230	1	60	CCW	5/370	1.50
51-100998-05	1/3	1075	1	208,220,230	1	50,60	CCW	5/370	1.50
51-101774-19	1/3	1075	1	208,230	1	60	CCW	7.5/370	1.6
51-102008-09	1/3	1075	1	208,220,230	1	50,60	CCW	7.5/370	1.70
51-100998-25	1/3	1075	1	208,230	1	60	CCW	10/370	1.80
51-42179-01	1/3	1075	1	208,230	1	60	CCW	10/370	1.80
51-100998-32	1/3	1075	1	208,230	1	60	CCW	10/370	1.80
51-100998-13	1/3	1075	1	208,220,230	1	50,60	CCW	10/370	1.80
51-42534-24	1/3	1075	1	208,220,230	1	50,60	CCW	10/370	2
51-100998-19	1/3	1075	1	208,230	1	60	CCW	10/370	2
51-100998-29	1/3	1075	1	208,230	1	60	CCW	10/370	2
51-42534-01	1/3	1075	1	208,220,230	1	50,60	CCW	10/370	2
51-42534-09	1/3	1075	1	208,220,230	1	50,60	CCW	15/370	2.40
51-42534-29	1/2	1075	1	208,220,230	1	50,60	CCW	15/370	2.30
51-42534-13	1/2	1075	1	208,220,230	1	50,60	CCW	15/370	2.30
51-42534-16	3/4	1075	1	208,220,230	1	50,60	CCW	10/370	4.20
51-42534-19	3/4	1075	1	208,230	1	60	CCW	10/370	4.20

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	2	5-11/16	7-13/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	2-15/16	4-1/16	7	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2-3/16	3-13/16	6	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	4-29/32	1-19/32	4-3/32	5-23/32	Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	2	5-11/16	7-7/8	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	4-29/32	1-19/32	4-1/16	5-21/32	End-boss	Ball	Condenser	Direct Drive
1/2	4-29/32	1-19/32	4-3/32	5-23/32	Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	1-3/4	3-15/16	5-11/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	1-3/4	3-15/16	5-27/32	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	5-11/16	7-13/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	2-3/4	4-11/16	7-7/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	1-3/4	4-1/16	5-13/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	1-3/4	4-1/16	5-13/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	1-3/4	4-3/16	5-15/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	1-3/4	3-15/16	5-11/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	4-1/2	6-1/2	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	5-7/16	7-9/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	2-1/16	4-5/16	6-3/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	4-3/16	6-3/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	5-7/16	7-9/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-7/16	3-13/16	7-1/4	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-11/16	5-9/16	7-1/4	Shell-band	Sleeve	Condenser	Direct Drive
1/2	4-13/16	1-5/8	3-13/16	5-7/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-9/16	3-11/16	7-5/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	1-7/8	4-13/16	6-11/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	2	4-11/16	6-11/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2-1/4	5-1/16	7-5/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	5-9/16	7-1/4	Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2-7/16	4-1/16	6-1/2	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3	4-9/16	7-9/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-39/64	2	4-1/2	6-1/2	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	5-1/8	4-1/2	9-9/16	Shell-band,Shell-screw	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	4-7/16	6-7/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	6-3/16	8-5/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3	5-13/16	8-3/4	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-7/16	5	8-2/5	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	4-3/4	8-7/16	Shell-band,Shell-screw	Sleeve	Condenser	Direct Drive
1/2	5-39/64	3-21/32	4-3/4	8-3/8	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	4-3/4	8-3/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	6-5/8	2-1/16	5-31/64	7-9/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	5-1/2	9-1/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-39/64	3-1/4	5-1/2	9-1/8	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-1/2	5-1/2	9-15/16	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-1/2	5-1/2	10	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	2-1/4	5-47/64	8	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-7/16	5-3/4	10-1/4	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	4-27/64	6-1/4	10-23/32	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	2-3/4	6-1/4	9	End-boss,Shell-band	Ball	Condenser	Direct Drive

## OUTDOOR CONDENSER MOTORS (460V)



### PROTECH Wholesale Condenser Motors (460V)



Designed to fit a variety of common aftermarket applications. Additionally, they are approved as OEM replacements for many Rheem, Ruud, and WeatherKing models; see unit parts lists for cross-reference.

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (µF/V)	FLA AT 460V (A)
51-23063-11	1/3	1075	1	460	1	60	Reversible	5/370	1
51-23052-21	1/2	1075	2	208,230	1	60	Reversible	7.5/370	



### US Motors Mojave 70C Condenser Motors (460V)



- Designed for 158°F (70°C) ambient/Class F insulation
- Special corrosion protection for longer life in humid environments
- 48 inch leads

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (µF/V)	FLA AT 460V (A)
3736H	1/4	1075	1	460	1	60	Reversible	7.5/370	0.80
3737H	1/3	1075	1	460	1	60	Reversible	7.5/370	1.30
3738H	1/2	1075	1	460	1	60	Reversible	10/370	1.50



### US Motors PEP High Efficiency Condenser Motors (460V)



- Designed for 158°F (70°C) ambient/Class F insulation
- Special corrosion protection for longer life in humid environments
- 48 inch leads

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (µF/V)	FLA AT 460V (A)
3736PEP	1/4	1075	1	460	1	50,60	Reversible	7.5/370	0.70
3737PEP	1/3	1075	1	460	1	50,60	Reversible	7.5/370	1.00
3738PEP	1/2	1075	1	460	1	50,60	Reversible	10/370	1.50



### OEM Condenser Motors (460V)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications.

PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (µF/V)	FLA AT 460V (A)
51-101774-06	1/6	825	1	460	1	50,60	CCW	5/370	0.35
51-102500-06	1/5	825	1	380-415,460	1	50,60	CCW	5/370	0.60
51-101774-34	1/5	825	1	460	1	60	CCW	5/370	0.50
51-21853-05	1/5	1075	1	460	1	60	CCW	3/370	0.60
51-19704-01	1/4	1075	1	460	1	60	CCW	5/370	1
51-100998-26	1/3	825	1	460	1	60	CCW	5/370	0.80
51-101774-26	1/3	1075	1	460	1	60	CCW	7.5/370	0.95
51-42534-02	1/3	1075	1	380-415,460	1	50,60	CCW	10/370	1
51-21853-15	1/3	1075	1	460	1	60	CCW	10/370	0.90
51-42534-10	1/3	1075	1	380-415,460	1	50,60	CCW	15/370	1.10
51-100998-07	1/3	1075	1	460	1	60	CCW	5/370	1
51-42534-25	1/3	1075	1	380-415,460	1	50,60	CCW	10/370	1
51-100998-20	1/3	1075	1	380-415,460	1	50,60	CCW	7.5/370	1
51-100998-33	1/3	1075	1	460	1	60	CCW	10/370	0.90
51-100998-31	1/3	1075	1	460	1	60	CCW	5/370	1
51-100998-12	1/3	1075	1	380-415,460	1	50,60	CCW	10/370	0.90
51-42534-28	1/2	1075	1	380-415,460	1	50,60	CCW	10/370	1.50
51-42534-14	1/2	1075	1	380-415,460	1	50,60	CCW	10/370	1.50
51-42534-06	1/2	1075	1	380-415,460	1	50,60	CCW	15/370	1.40
51-42534-17	3/4	1075	1	380-415,460	1	50,60	CCW	10/370	2
51-42534-20	3/4	1075	1	460	1	60	CCW	10/370	2.30

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	4-1/4	4-1/8	8-3/8	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-3/4	5-3/4	9-1/2	Shell-band,Shell-screw,Thru-bolt	Sleeve	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	6	4-9/16	11-1/16	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	5-5/16	11-27/32	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	6	5-1/2	12	Shell-band,Thru-bolt	Ball	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	5	4-5/8	9-5/8	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-1/16	10-1/16	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive
1/2	5-5/8	5	5-5/8	10-5/8	End-boss,Shell-band,Thru-bolt	Ball	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-39/64	2	4-1/2	6-1/2	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	1-3/4	5	11863	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	5-3/16	7-11/32	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-3/4	3-3/4	7-7/16	Shell-band,Thru-bolt	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-1/4	5-1/16	8-13/16	Shell-band	Sleeve	Condenser - Open Ends	Direct Drive
1/2	5-5/8	3	4-3/4	7-3/4	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	6-3/16	8-5/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-1/2	5-1/2	9-15/16	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	5	8-11/16	Shell-band,Shell-screw	Sleeve	Condenser	Direct Drive
1/2	5-5/8	4-1/2	5-3/4	10-1/4	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-3/16	4-7/16	7-5/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-31/64	2-3/32	5-31/64	7-9/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	3-9/32	5-1/2	9-3/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	3-21/32	5	8-5/8	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	3-5/32	4-1/2	7-5/8	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	3-11/16	5	8-5/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-39/64	1-3/4	6-15/64	8	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-7/16	6-1/4	10-3/4	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	2-1/2	6-13/16	9-3/8	Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-7/16	6-1/4	10-3/4	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	2-1/4	6-3/4	9	End-boss,Shell-band	Ball	Condenser	Direct Drive

## OUTDOOR CONDENSER MOTORS (575)

### OEM Condenser Motors (575V)



These motors are OEM replacements for Rheem, Ruud, and WeatherKing models; additionally they may be suitable for aftermarket retrofit in many other applications.



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	RUN CAPACITOR (uF/V)	FLA AT 460V (A)
51-101774-10	1/5	825	1	575	1	60	CCW	5/370	0.50
51-21569-01	1/4	1075	1	575	1	60	CCW	5/370	0.70
51-100998-10	1/4	1075	1	575	1	60	CCW	5/370	0.70
51-101774-25	1/3	1075	1	575	1	60	CCW	7.5/370	0.70
51-42534-11	1/3	1075	1	575	1	60	CCW	5/370	0.80
51-100998-28	1/3	1075	1	575	1	60	CCW	7.5/370	0.80
51-100998-14	1/3	1075	1	575	1	60	CCW	7.5/370	0.80
51-42534-26	1/3	1075	1	575	1	60	CCW	10/370	1
51-42534-03	1/3	1075	1	575	1	60	CCW	10/370	1
51-42534-27	1/2	1075	1	575	1	60	CCW	7.5/440	1
51-42534-18	3/4	1075	1	575	1	60	CCW	10/370	1.90

## DOUBLE-SHAFT MOTORS

### Replacement Motors – Double Shaft (120V)



PART NO	HP	HIGH SPEED (RPM)	NO OF SPEEDS	INPUT VOLTAGE	NO OF PHASES	FREQ (Hz)	ROTATION DIRECTION (OSE)	FLA AT 120V (A)
51-23017-32	3/4	1075	3	120	1	60	Reversible	13.30

## MOTOR ACCESSORIES

### PROTECH Motor Programmer



The PROTECH Motor Programming system allows field programming of Genteq ECM, Eon, Endura Pro and X-13 motors from blank (unprogrammed) motors. Additionally, when used with U.S. Motors part number KIT41, the system can be used to program U.S. Motors SelecTech motors. Using this system, over 200 different programmed motors and modules can be created on an as-needed basis. Only about a dozen blank motor and module part numbers need to be stocked, thereby saving valuable inventory dollars while increasing service levels to your customers.

The system consists of the PROTECH Motor Programmer software and certain interface cables and other hardware peripherals described below. The software is easily installed on the user's computer. The computer is connected to the motor through the interface box and cables

provided in the kit. When it is time to program a motor, the software connects to the internet and retrieves the latest version of the motor program and writes it to the motor's memory. Then a label with the new programmed motor part number is printed for attachment to the motor.

#### System Requirements:

- You must purchase Field Programming Kit PD510011 - this kit contains the following items:
  - USB port interface box - connects the computer to the motor being programmed
  - Cables for ECM/Eon and Endura Pro/X-13 motor connectors
  - Thermal printer - no ink cartridges required
  - Two rolls of spare labels - additional labels available as part number 864040
- Microsoft Windows - version XP, Vista, 7, 8, 10
- Microsoft .Net Framework version 3.5
- An active connection to the internet



PART NO	DESCRIPTION
PD510011	Kit for PROTECH Motor Programmer (Field Programming of ECM / Eon / X-13 / Endura Pro Motors)



SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	1-3/4	5-1/4	7	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-3/4	4-1/4	8	Shell-band,Shell-screw	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-2/3	4-7/16	8-1/16	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-5/8	2	6-3/16	8-5/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	4-1/2	6-1/4	10-3/4	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	3-1/4	6	9-21/32	End-boss,Shell-band,Shell-screw	Sleeve	Condenser	Direct Drive
1/2	5-5/8	3-11/16	4-3/4	8-3/8	End-boss,Shell-band	Sleeve	Condenser	Direct Drive
1/2	5-31/64	2-3/32	5-31/64	7-9/16	End-boss,Shell-band	Ball	Condenser	Direct Drive
1/2	5-5/8	4-1/2	5-1/2	9-15/16	Shell-band	Ball	Condenser	Direct Drive
1/2	6-5/8	2-1/4	5-47/64	8	Shell-band	Ball	Condenser	Direct Drive
1/2	5-39/64	4-27/64	6-1/4	10-23/32	Shell-band	Ball	Condenser	Direct Drive

SHAFT DIA (IN)	MOTOR BODY DIA (IN)	OVERALL SHAFT LENGTH (IN)	MOTOR BODY LENGTH (IN)	OVERALL MOTOR LENGTH (IN)	MOUNTING	BEARING TYPE	APPLICATION	DRIVE TYPE
1/2	5-5/8	4	5-13/16	13-13/16	Shell-band,Thru-bolt	Sleeve	Blower	Direct Drive

## MOTOR ACCESSORIES

### Printer Label Refills for PROTECH Motor Programmer



PART NO	DESCRIPTION
864040	Label Refill for 864039 Seiko 440 Printer (Two Rolls of 222 Labels)
PD864043	Label Refill for PD864042 Brother QL-770 Printer (800 Labels)

# MOTOR ACCESSORIES

## ECM/X-13 MOTOR TESTERS & ACCESSORIES



### TECINSpect Motor Tester

- A low cost, easy to use device that will analyze ECM motors independent of the HVAC system; it operates in the basic HVAC settings of fan-only, heating, cooling and de-humidification.
- Specially designed to detect and isolate motor

- failures from other HVAC system failures
- Suitable for use with Genteq (GE) ECM 2.0, 2.3, and 3.0 series motors
- Also includes a 16 to 4-pin connector, ECM Service Guide, ThinkTank 3.0 service overview

PART NO	DESCRIPTION
PD510009	TECINSpect ECM/Eon Motor Tester
8794707JF	TECINSpect ECM/Eon Motor Tester Adapter (order separately for use with older units)



### Variable Speed Zebra ECM Motor Tester

The Variable Speed Zebra connects between the unit's circuit boards and the motor. It operates in-line with the system, in real time, testing both major sections (motor and control boards) simultaneously.

- Monitors and displays the signals going out of the circuit boards, and then either a) passes them along to the motor, or b) allows the operator to interrupt the signals and control all the functions of the motor directly
- Displays the CFM, RPM, and control voltages

- being sent to the motor's electronics module
- Simple to operate; only 4 switches
- Rugged carrying case
- Includes manual and two DVDs (ECM Theory and ECM Troubleshooting)
- Suitable for use with Genteq (GE) ECM 2.0, 2.3 series motors; also suitable for X-13 and ECM 142 series outdoor condensing motors with additional harnesses, sold separately
- One year limited manufacturer's warranty

PART NO	DESCRIPTION
VZ-7	Variable Speed Zebra – ECM Motor Tester



### Wiring Harnesses for VZ-7

PART NO	DESCRIPTION
UZHMB	UZ-1 Adapter "B" for GE 3.0 ECM Motors
VZH03	X-13 Motor Adapter (For VZ-7 Tester)
VZH04	Rheem/Ruud Mod 90 Furnace (& Various Coleman/York) Adapter (For VZ-7 Tester)
VZH06	142 Series Outdoor ECM Condenser Motor Adapter (For VZ-7 Tester)



### Extension Harness for VZ-7

Two 40 inch long 16-pin extension harnesses extend the reach of the VZ-7 diagnostic tool up to 80 inches; flat "ribbon" cables easily fit between access doors and unit cabinets, assuring accurate CFM and RPM readings and proper door interlock functions.

PART NO	DESCRIPTION
VZH05	Extension Harness – VZ-7



### ECM and X-13 Motor Surge Protectors

Plug-in surge protectors help protect ECM, X13 and Evergreen motors from transient surges and lightning.

PART NO	DESCRIPTION
VZPRO	ECM Motor Surge Protector
X13PR	Motor Surge Protector (X-13 & Evergreen)



### ECM Motor Repair Kit

Kit includes repair components for ECM 2.3 modules that have been damaged by voltage problems and power surges; requires use of soldering iron and rosin-core solder.

PART NO	DESCRIPTION
VZREP	ECM Motor Repair Kit

## MOTOR ACCESSORIES



### Shaft Adapter Kit – 1/2 Inch to 5/8 Inch

- Includes 1-3/8 in. long adapter collar to increase shaft diameter from 1/2 in. to 5/8 in.
- Includes 3/16 in. x 3/16 in. x 1-3/4 in. key

PART NO	DESCRIPTION
A224	Motor Shaft Adapter (1/2 in. to 5/8 in.)

### MOTOR RAIN SHIELD CAPS



#### Rain Shield – 7 inch

- 7 inch diameter black polymer rain shield
- Fits condenser motors with 1/2 inch shaft diameter

PART NO	DESCRIPTION
56-17846-02	Motor Rain Shield Cap



#### Rain Shield – 3-1/2 inch

- 3-1/2 inch diameter black polymer rain shield
- Fits condenser motors with 1/2 inch shaft diameter

PART NO	DESCRIPTION
56-17070-01	Motor Rain Shield Cap

### MOTOR MOUNTING



#### Blower Motor Belly Band Mounting Kit – Wide Band Type

PART NO	MOTOR FRAME SIZE (IN)	NOM MOTOR DIAMETER (IN)	BLOWER MOUNTING BOLT CIRCLE DIM (IN)	NUMBER OF ARMS	RADIAL ARM DISTANCE DIM A (IN)	ATTACHMENT ARM OVERALL LENGTH B (IN)
AS-53148-83	48	5-5/8	10-5/8	3	2-1/2	3-5/8
AS-53148-86	48	5-5/8	11-3/8	3	2-7/8	3-5/8
AS-53148-87	48	5-5/8	13	3	3-11/16	4-1/4
AS-53148-81	48	5-5/8	14-1/8	3	4-1/4	3-5/8
AS-53148-88	42	4-13/16	9-13/16	3	2-1/2	3-5/8
AS-53148-85	42	4-13/16	10-9/16	3	2-7/8	3-5/8
AS-53148-90	42	4-13/16	12-3/16	3	3-11/16	3-5/8
AS-53148-89	42	4-13/16	13-5/16	3	4-1/4	3-5/8



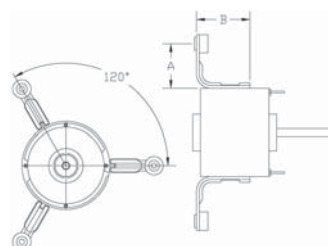
#### Blower Motor Belly Band Mounting Kit – Wire Type

PART NO	MOTOR FRAME SIZE (IN)	NOM MOTOR DIAMETER (IN)	BLOWER MOUNTING BOLT CIRCLE DIM (IN)	NUMBER OF ARMS	RADIAL ARM DISTANCE DIM A (IN)	ATTACHMENT ARM OVERALL LENGTH B (IN)
56-23001-09	48	5-5/8	10	3	2-3/16	3-5/16
56-23001-08	48	5-5/8	11	3	2-11/16	3-5/16



#### Blower Motor Belly Band Mounting Kit – Wire Type with Mounting Brackets

PART NO	MOTOR FRAME SIZE (IN)	NOM MOTOR DIAMETER (IN)	NUMBER OF ARMS	BLOWER MOUNTING BOLT CIRCLE DISTANCE (IN)	INSERTION DEPTH – BLOWER MOUNTING SURFACE TO RING EDGE (IN)
70-24104-81	48	5-5/8	4	13-3/8, 16-1/8, 18-7/8	1/16
70-24104-82	48	5-5/8	4	12-7/8, 14-7/8, 16-7/8	3-1/4



#### Motor Mounting Kit Dimensions

## MOTOR ACCESSORIES



### Blower Motor Shell Screw Mounting Kit

PART NO	MOTOR FRAME SIZE (IN)	NOM MOTOR DIAMETER (IN)	NOM BLOWER MOUNTING BOLT CIRCLE DIM (IN)	BLOWER MOUNTING BOLT CIRCLE DIM (IN)	NUMBER OF ARMS	ATTACHMENT ARM OVERALL LENGTH B (IN)
AE-58384-81	48	5-5/8	16	13-1/4, 16, 18-3/4	4	1/2, 3/4, 1, 1-1/4, 1-1/2, 1-3/4, 3-5/16
AE-61698-82	48	5-5/8	14-13/16	12-13/16, 14-13/16, 16-13/16	4	1/4, 3/4, 1-1/4, 3-5/16, 4-5/16



### Condenser Motor Plate Mount Kit

- Allows use of thru-bolt motors to be mounted in condenser grilles that require shell screw mounting
- Bracket dimensions: 6" x 5-7/8" x 1" (Fits many Rheem, Ruud, and WeatherKing grilles)
- Pre-drilled slots and holes work well with thru-bolt patterns on 48 frame motors with the following thru-bolt pattern dimensions:
  - Square pattern: Bolt Circle 5.187" (approximately 5-3/16"), or 3.668" (approx

- 3-43/64") distance between mounting bolts
- Square pattern: Bolt Circle 5.125" (approximately 5-1/8"), or 3.624" (approximately 3-5/8") distance between mounting bolts
- Rectangular pattern: 3" x 4.25" (approximately 3" x 4-1/4") distance between mounting bolts
- Minor modifications may be necessary with some 42 and 48 frame motors

PART NO	DESCRIPTION
AS-55306-82	Condenser Motor Plate Kit



### Condenser Motor Ring Mount Kit

- Fits 48 frame motors (5-5/8 in. diameter)
- Three mounting arms; adjustable for positioning around motor
- Mounting slots allow for a 7 in. to 8-3/16 in.

- bolt circle diameter
- Mounting arm slot width can accommodate up to 5/16 in. bolt sizes

PART NO	DESCRIPTION
56-23001-05	Condenser Motor Ring Mount Kit



### Motor Case Studs

- Contains four 7 in. long x 8-32 threaded studs
- Includes twelve 8-32 nuts and washers

PART NO	DESCRIPTION
56-23001-03	Bolt Kit – Shell Stud



### Resilient Rings Kit

- Allows for conversion of a thru-bolt motor to fit a resilient type mounting base
- Mounting brackets will fit popular thru-bolt patterns: 3.68" x 3.68" or 3.63" x 3.63" square patterns, and 3" x 4.25" rectangular patterns

- Rubber isolator rings are approximately 2-1/2" diameter
- Extra metal split rings and an assortment of thru-bolt nuts are provided for securing the mounting brackets

PART NO	DESCRIPTION
56-23001-07	Resilient Ring Kit