



Packard

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the heart of the
cooling season.

a perfect pair.



Compressors in stock, ready to ship.
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USA-Made Titan HD™ Capacitors &
Packard PSC Condensator Fan Motors.
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selection | service | satisfaction



FASCO



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Packard's long-standing relationship with Regal Beloit means that we can deliver you exactly the products your business needs from any of Regal's brands in one shipment. Plus, you get the one-on-one customer support you've come to expect with Packard.



REGAL

A Note from Tom Campbell, CEO

Selection, Service, Satisfaction is a slogan you'll be seeing often from Packard – it's even represented by the three 'swishes' in our logo, as our commitment to our core values. As Packard enters it's 54th year, we continue to do more to improve upon these "three S's".

Selection: For the 2013 cooling season, Packard proudly introduces Titan HD™, our own line of heavy-duty USA-made motor run capacitors. Built to the rigorous EIA-456A standards, Titan HD™ will satisfy the needs of those looking to stock and purchase a durable, American-made product. We're also excited to have added new partner lines such as Revcor, US Seal and ZSI which bring high quality and innovation to get you through the repairs the season demands.

Service: During the last half of 2012, we made strides at turning customer feedback into solutions. For example, we're expanding our top compressor inventory to a West Coast warehouse for faster delivery for more customers. We also solicited customer input on our website and will be launching a new and improved Packard online experience in 2013. Our goal is to make it easy to quickly find information on products, place orders and get in touch with us when you need to.

Satisfaction: We're here for you. With Packard, you get a phone call answered by a person, and product support after the sale. While we are excited to expand and reach the market in new and bold ways, we also know that small business courtesy never goes out of style.

Thomas F. Campbell

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Permanent Split Capacitor Condenser Fan Motors



Features

- Permanent split capacitor
- Single speed
- Reversible rotation
- Totally enclosed
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Notes
Century									
FSE1016SV1	1/6	208-230	1075	0.90	1/2 x 6 1/2	4	Sleeve	5MFD/370V	189 422
FSE1026SV1	1/4	208-230	1075	1.30	1/2 x 6 1/2	4 3/8	Sleeve	5MFD/370V	189 422
FE1026SC	1/4	208-230	1075	1.30	1/2 x 6	4 5/8	Ball	5MFD/370V	189 246
FSE1036SV1	1/3	208-230	1075	1.80	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V	189 422
FE1036SB	1/3	208-230	1075	1.80	1/2 x 6	5 1/4	Ball	7.5MFD/370V	189
FSE1056SV1	1/2	208-230	1075	2.80	1/2 x 6 1/2	5 3/8	Sleeve	10MFD/370V	189 422
FE1056SC	1/2	208-230	1075	2.80	1/2 x 6	5 5/8	Ball	10MFD/370V	189
FSE1076SV1	3/4	208-230	1075	4.20	1/2 x 6 1/2	5 5/8	Sleeve	15MFD/370V	189 422
Fasco									
D799	1/8	208-230	825	0.90	1/2 x 6	4	Sleeve	5MFD/370V	126 138 208 517
D919	1/8	208-230	1075	0.90	1/2 x 6 1/2	3 3/4	Sleeve	5MFD/370V	126 135 208 517
D917	1/6	208-230	1075	1.00	1/2 x 6 1/2	3 3/4	Sleeve	5MFD/370V	126 135 208 517
D794	1/5	208-230	825	1.30	1/2 x 6	4 1/3	Sleeve	5MFD/370V	126 138 208 517
D906	1/5	208-230	1075	1.20	1/2 x 6 1/2	4	Sleeve	5MFD/370V	126 135 208 517
D934	1/4	208-230	825	1.90	1/2 x 6	4 1/3	Sleeve	5MFD/370V	126 138 208 517
D909	1/4	208-230	1075	1.80	1/2 x 6 1/2	4	Sleeve	5MFD/370V	126 135 208 517
D7909	1/4	208-230	1075	1.80	1/2 x 6 1/2	4	Ball	5MFD/370V	126 135 208 517
D936	1/3	208-230	825	2.00	1/2 x 6	5	Sleeve	7.5MFD/370V	138 208 517
D908	1/3	208-230	1075	2.40	1/2 x 6 1/2	4 1/2	Sleeve	7.5MFD/370V	126 135 208 517
D7908	1/3	208-230	1075	2.60	1/2 x 6 1/2	4 1/2	Ball	7.5MFD/370V	126 135 208 517
D907	1/2	208-230	1075	3.70	1/2 x 6 1/2	4 3/4	Sleeve	10MFD/370V	135 208 517
D7907	1/2	208-230	1075	3.70	1/2 x 6 1/2	5	Ball	10MFD/370V	135 208 517
D933	3/4	208-230	1075	5.00	1/2 x 6 1/2	5 3/4	Sleeve	15MFD/370V	135 141 208 517
D931	3/4	208-230	1075	4.50	1/2 x 6 1/2	5 1/4	Ball	15MFD/370V	135 208 517
Packard									
80825	1/8	208-230	825	1.00	1/2 x 6 1/2	3 7/8	Ball	5MFD/370V	126
43727B	1/6	208-230	1075	1.30	1/2 x 6	3 7/8	Ball	5MFD/370V	126
60825	1/6	208-230	825	1.20	1/2 x 6 1/2	4 1/4	Ball	5MFD/370V	126
40825	1/4	208-230	825	1.90	1/2 x 6 1/2	4 1/4	Ball	5MFD/370V	126
43732	1/4	208-230	1075	1.80	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	126
30825	1/3	208-230	825	2.10	1/2 x 6 1/2	5	Ball	7.5MFD/370V	126
43733	1/3	208-230	1075	2.80	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V	126
43734	1/2	208-230	1075	3.50	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V	126
43735	3/4	208-230	1075	5.10	1/2 x 6 1/2	5 7/8	Ball	15MFD/370V	126

Notes:

126. 4 drilled and tapped holes in shell for Rheem applications
 135. All angle mount bearings
 138. All angle mount bearings. Use rain shield when necessary
 141. Motor has increased stack for higher ambient temperature

189. Reversing plug
 208. 60°C ambient
 246. No hubs on either end

422. 1/2" hub on shaft end frame with slinger. Grommet on lead exits.
 517. Electrically reversible

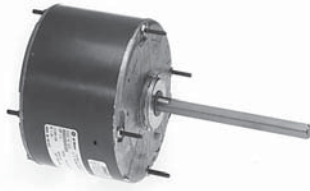
Condenser Fan Motors

Applications

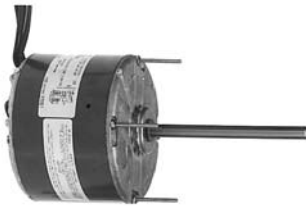
- Designed for condenser fan and heat pump units requiring vertical shaft up or vertical shaft down positioning with “belly band” or extended clamp screw mounting.

Features

- Permanent split capacitor
- Standard efficiency designs
- Sleeve or ball bearings
- Designed for 370 Volt capacitor
- Mounting holes in shell for capacitor bracket
- Water slinger on shaft
- 26 inch motor leads
- Single phase
- 48 Frame



Shaft Up or Down Application



Shaft Up or Horizontal Application

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base	Notes
genteq - Shaft Up or Down Application										
3201	1/10	208-230	825	0.80	1	Reversible	PSC	Ball	NB	1, 5
3202	1/8	208-230	825	1.10	1	Reversible	PSC	Ball	NB	1, 5
3727	1/6	208-230	1075	1.00	1	Reversible	PSC	Sleeve	NB	
3203	1/6	208-230	825	1.00	1	Reversible	PSC	Ball	NB	
3403	1/6	208-230	825	1.00	1	Reversible	PSC	Sleeve	NB	
3728	1/4	208-230	1075	1.80	1	Reversible	PSC	Sleeve	NB	1
3732	1/4	208-230	1075	1.80	1	Reversible	PSC	Ball	NB	2
3204	1/4	208-230	825	1.50	1	Reversible	PSC	Ball	NB	
3404	1/4	208-230	825	1.50	1	Reversible	PSC	Sleeve	NB	
3729	1/3	208-230	1075	2.30	1	Reversible	PSC	Sleeve	NB	1, 4
3733	1/3	208-230	1075	2.30	1	Reversible	PSC	Ball	NB	1
3205	1/3	208-230	825	2.20	1	Reversible	PSC	Ball	NB	
3405	1/3	208-230	825	2.20	1	Reversible	PSC	Sleeve	NB	
3730	1/2	208-230	1075	3.50	1	Reversible	PSC	Sleeve	NB	1
3734	1/2	208-230	1075	3.50	1	Reversible	PSC	Ball	NB	
3731	3/4	208-230	1075	4.70	1	Reversible	PSC	Sleeve	NB	
3735	3/4	208-230	1075	4.70	1	Reversible	PSC	Ball	NB	
genteq - Shaft Up or Horizontal Application										
3327	1/6	208-230	1075	0.90	1	Reversible	PSC	Sleeve	NB	1, 3, 6
3328	1/4	208-230	1075	1.80	1	Reversible	PSC	Sleeve	NB	1, 3
3329	1/3	208-230	1075	2.40	1	Reversible	PSC	Sleeve	NB	1, 3, 6
3330	1/2	208-230	1075	3.60	1	Reversible	PSC	Sleeve	NB	1, 3, 6
3331	3/4	208-230	1075	5.10	1	Reversible	PSC	Sleeve	NB	3, 6
Notes:										
1. Designed for 60°C ambient			3. Opposite shaft-end endshield is open			5. Designed for 50 or 60 Hertz operation				
2. Designed for 65°C ambient			4. TENV construction			6. 6" shaft extension with two flats 90° apart				

5 5/8 Inch Diameter Multi-Horsepower Condenser Fan Motors



Features

Replaces Rheem and Hundreds of Other Condenser Motors!

- Permanent split capacitor
- UL and CSA approved
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- 5 5/8 inch diameter
- Ball bearings
- Electrically reversible
- All angle mounting
- Automatic overload

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Replaces
Packard								
45488B	1/4-1/5-1/6-1/8	208-230	825	1.70	1/2 x 6 13/16	5	Ball	Emerson 5464 GE 3459 GE 4369 Rheem 51-20760-11 Rheem 51-21276-01 Rheem 51-23054-13 Rheem 51-23055-12
45458B	1/3-1/4-1/5-1/6	208-230	1075	1.70	1/2 x 6 13/16	5	Ball	Emerson 5458 Emerson 5462 GE 3458 GE 3465 Rheem 51-20354-11 Rheem 51-20668-11 Rheem 51-23053-11 Rheem 51-23055-11

Heatshield Condenser Fan Motors

Applications

- Use on outdoor condenser and heat pump units.

Features

- 5 5/8 inch diameter
- 1.0 Service Factor
- 70°C max. ambient
- Continuous duty
- Automatic overload
- 3 5/8 inch x 3 5/8 inch stud pattern
- 1/2 inch x 6 1/2 inch shaft dimension
- Design and insulation withstand higher ambient temperatures throughout to run cooler at full rated load
- Life-Line multi-horsepower models reduce inventory expense
- Pre-drilled holes for Rheem mounting
- Includes reversing plug
- Drain plugs in each endshield
- 48 inch leads with seal bushing
- UL recognized and CSA certified
- Reversible rotation
- 48 Frame
- Class B insulation
- Totally enclosed air-over
- All angle shaft orientation



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Capacitor
genteq Heat Shield									
3727HS	1/6	208-230	1075	1.00	1	Reversible	PSC	Sleeve	5MFD/370V
3728HS	1/4	208-230	1075	1.70	1	Reversible	PSC	Sleeve	5MFD/370V
3732HS	1/4	208-230	1075	1.70	1	Reversible	PSC	Ball	5MFD/370V
3729HS	1/3	208-230	1075	2.60	1	Reversible	PSC	Sleeve	7.5MFD/370V
3733HS	1/3	208-230	1075	2.60	1	Reversible	PSC	Ball	7.5MFD/370V
3730HS	1/2	208-230	1075	3.00	1	Reversible	PSC	Sleeve	10MFD/370V
3734HS	1/2	208-230	1075	3.00	1	Reversible	PSC	Ball	10MFD/370V
3731HS	3/4	208-230	1075	4.10	1	Reversible	PSC	Sleeve	15MFD/370V
3735HS	3/4	208-230	1075	4.10	1	Reversible	PSC	Ball	15MFD/370V
genteq Heat Shield Life-Line									
3459HS	1/3-1/8	208-230	825	1.80	1	Reversible	PSC	Ball	10MFD/370V
3458HS	1/3-1/6	208-230	1075	2.60	1	Reversible	PSC	Ball	7.5MFD/370V
3461HS	1/2-1/6	208-230	825	2.80	1	Reversible	PSC	Ball	20MFD/370V
3460HS	1/2-1/6	208-230	1075	3.00	1	Reversible	PSC	Ball	10MFD/370V

ARKTIC™ 142 Motor

Applications

- Designed primarily for use in the evaporator of commercial refrigeration and walk-in coolers and freezers as well as outdoor condensers, but can be used in many applications demanding high efficiency and dependability with output ratings between 1/5 - 1 H.P. including parallel rack fan motors.

Features

- Shaft water slinger
- 26 inch cord set attached to motor
- Horizontal - vertical down orientation desired
- Totally enclosed, Non-vented (air-over ECM required)
- Designed for 50 or 60 Hertz operation
- RoHS compliant NEMA 48 Frame electronically commutated motor



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings
Morrill Motors									
5R007	1/3	230	1075	2.60-3.50	1	CCW	1/2 x 4	10	Ball

Life-Line Multi-Horsepower Motors

MOTORS



Applications

- Designed for condenser fan and heat pump units requiring vertical shaft up or vertical shaft down positioning with “belly band” or extended clamp screw mounting.

Features

- Ball bearings
- Water slinger on shaft
- Class B insulation
- Single phase
- Automatic overload
- Permanent split capacitor
- Designed for 370 Volt capacitor, not included
- Different capacitor/speed combinations to fit various HP applications
- Holes in motor shell for mounting brackets
- Extended clampbolts or studs for mounting

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base
genteq									
3465	1/3-1/6	208-230	1075	2.60	2	Reversible	PSC	Ball	NB
3458	1/3-1/6	208-230	1075	2.80	1	Reversible	PSC	Ball	NB
3469	1/3-1/6	208-230	825	1.90	2	Reversible	PSC	Ball	NB
3459	1/3-1/8	208-230	825	2.40	1	Reversible	PSC	Ball	NB
3468	1/2-1/5	208-230	1075	3.00	2	Reversible	PSC	Ball	NB

Applications

- Designed for continuous air over applications, such as direct drive residential, commercial and industrial air conditioners, fan and blowers.

Features

- Permanent split capacitor
- Ball and sleeve bearings
- Class B insulation
- Single phase
- Automatic overload
- Different capacitor/speed combinations to fit various HP applications
- Holes in motor shell for mounting brackets
- Extended clamp screws and resilient rings to fit multiple mounting requirements



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base
genteq - Shaft Up or Horizontal Application									
3463	1/2-1/6	115	1075	6.20	4	Reversible	PSC	Sleeve	2RR
3464	1/2-1/6	208-230	1075	2.70	4	Reversible	PSC	Sleeve	2RR
3466	3/4-1/5	115	1075	8.40	4	Reversible	PSC	Ball	2RR
3467	3/4-1/5	208-230	1075	4.20	4	Reversible	PSC	Ball	2RR

Capacitor/Speed Selection Guide

Item ID	H.P.	Speeds to Use	Capacitor @ 208V	Capacitor @ 230V	Amps
3465	1/3	Hi	7.5/370	5/370	2.60
	1/4	Hi	7.5/370	5/370	2.50
	1/5	Lo	7.5/370	5/370	2.00
	1/6	Lo	7.5/370	5/370	1.80
3458	1/3	Hi	7.5/370	7.5/370	2.80
	1/4	Hi	7.5/370	7.5/370	2.80
	1/5	Hi	7.5/370	7.5/370	2.80
	1/6	Hi	7.5/370	7.5/370	2.80
3469	1/3	Hi	10/370	7.5/370	1.90
	1/4	Hi	10/370	7.5/370	1.50
	1/5	Lo	10/370	7.5/370	1.20
	1/6	Lo	10/370	7.5/370	1.00
3459	1/3	Hi	12.5/370	12.5/370	2.40
	1/4	Hi	12.5/370	12.5/370	2.40
	1/5	Hi	12.5/370	12.5/370	2.40
	1/6	Hi	12.5/370	12.5/370	2.40
	1/8	Hi	12.5/370	12.5/370	2.40
3468	1/2	Hi	12.5/370	10/370	3.00
	1/3	Hi	12.5/370	10/370	2.20
	1/4	Lo	12.5/370	10/370	1.60
	1/5	Lo	12.5/370	10/370	1.30

Item ID	H.P.	Capacitor	Speeds to Use	Amps
3463	1/2	10/370	All Speeds	6.20
	1/3	5/370 or 7.5/370*	All Speeds	6.10
	1/4	5/370 or 7.5/370*	Med-Hi or Med-Lo:Lo	4.40
	1/5	5/370 or 7.5/370*	Med-Lo:Lo	3.20
	1/6	5/370 or 7.5/370*	Lo	2.40
	3464	1/2	10/370	All Speeds
1/3		5/370 or 7.5/370*	All Speeds	2.60
1/4		5/370 or 7.5/370*	Med-Hi or Med-Lo:Lo	1.90
1/5		5/370 or 7.5/370*	Med-Lo:Lo	1.40
1/6		5/370 or 7.5/370*	Lo	1.10
3466		3/4	20/370	All Speeds
	1/2	10/370	All Speeds	7.50
	1/3	10/370	Med-Hi or Med-Lo:Lo	4.20
	1/4	10/370	Med-Lo:Lo	3.20
	1/5	10/370	Lo	2.60
	3467	3/4	20/370	All Speeds
1/2		10/370	All Speeds	3.80
1/3		10/370	Med-Hi or Med-Lo:Lo	2.30
1/4		10/370	Med-Lo:Lo	1.90
1/5		10/370	Lo	1.50

* Using a 7.5 MFD/370V capacitor will result in approximately 10% stronger motor.

4-in-1® And HeatMaster® Condenser Fan Motors

4-in-1® Fan Motors (Economy Models) - 60°C Ambient



Features

- Class B insulation
- Energy-efficient PSC design
- Reversing connectors
- Durable ball bearings or dependable all-angle sleeve bearings
- Mounts by belly band, adjustable extended thru-bolts or Rheem mounting holes with supplied screws
- All-angle mount
- Lead length 36 inch to 48 inch
- Single speed
- Totally enclosed
- Continuous duty, air over
- UL and CSA approved
- 48 Frame
- 60 Hertz
- 60°C ambient

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required	Replaces	
Century											
ORM5488	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	PSC	Sleeve	7.5MFD/370V	Emerson 5457 Rheem 51-23055-12 Rheem 51-20761-11	Rheem 51-23054-13 Rheem 51-20760-11
ORM5488B	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	PSC	Ball	7.5MFD/370V	Rheem 51-20761-11	
ORM5458	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	PSC	Sleeve	7.5MFD/370V	Emerson 5458 Rheem 51-41465-01	Rheem 51-23055-11 Rheem 51-20668-11
ORM5458B	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	PSC	Ball	7.5MFD/370V	Rheem 51-20672-01 Rheem 51-20668-11	Rheem 51-23053-11 Rheem 51-23055-11

4-in-1® HeatMaster® Fan Motors (Deluxe Models) - 70°C Ambient



Features

- Energy-efficient PSC design
- Reversing connectors
- Water-resistant reversing plug
- Double sealed ball bearings or dependable all-angle sleeve bearings
- Mounts by belly band, adjustable extended thru-bolts or Rheem mounting holes with supplied screws
- All-angle mount
- Lead length 36 inch to 48 inch
- Single speed
- Totally enclosed
- Continuous duty, air over
- UL and CSA recognized
- 48 Frame
- Class F insulation
- 60 Hertz
- 70°C ambient
- High-temperature UL/CSA approved overload protector

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required	Replaces	
Century											
ORM5484F	1/8-1/15	208-230	825	0.80	1/2 x 6 1/2	4 1/4	PSC	Sleeve	5MFD/370V	Emerson 5456 Rheem 51-20761-01	Trane MOT6314
ORM5484BF	1/8-1/15	208-230	825	0.80	1/2 x 6 1/2	4 1/4	PSC	Ball	5MFD/370V	Rheem 51-20760-01	Trane MOT6314
ORM5454F	1/8-1/15	208-230	1075	0.80	1/2 x 6 1/2	4	PSC	Sleeve	5MFD/370V	Emerson 5459	
ORM5454BF	1/8-1/15	208-230	1075	0.80	1/2 x 6 1/2	4	PSC	Ball	5MFD/370V		
ORM5488F	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	PSC	Sleeve	7.5MFD/370V	Emerson 1875H	Marathon X072
ORM5458F	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	PSC	Sleeve	7.5MFD/370V	Emerson 1860H	
ORM5488BF	1/3-1/8	208-230	825	2.10	1/2 x 6 1/2	4 7/8	PSC	Ball	7.5MFD/370V		
ORM5489BF	1/2-1/5	208-230	825	2.50	1/2 x 6 1/2	5 5/8	PSC	Ball	10MFD/370V		
ORM4688BF	1/3-1/8	460	825	1.00	1/2 x 6 1/2	5 1/8	PSC	Ball	7.5MFD/370V		
ORM5458BF	1/3-1/6	208-230	1075	2.00	1/2 x 6 1/2	4	PSC	Ball	7.5MFD/370V	Emerson 5458H	
ORM5459BF	1/2-1/5	208-230	1075	3.60	1/2 x 6 1/2	5 3/8	PSC	Ball	10MFD/370V		
ORM4658BF	1/3-1/6	460	1075	1.20	1/2 x 6 1/2	4 7/8	PSC	Ball	7.5MFD/370V	Emerson 3736H	Rheem 51-23063-11
ORM4659BF	1/2-1/5	460	1075	1.50	1/2 x 6 1/2	5 5/8	PSC	Ball	10MFD/370V		

HeatMaster® Condenser Fan Motor

MOTORS

Features

- 70°C (158°F) max ambient
- UL/CSA approved Class F insulation
- High-temperature UL/CSA approved overload protector
- Energy-efficient PSC design
- All-angle mount
- Mounts by belly band, adjustable extended thru-bolts, or Rheem mounting holes, with screws supplied
- Lead length 26 to 48 inch
- Water-resistant reversing plug
- Double sealed ball bearing, or dependable all-angle sleeve bearings
- 60 Hertz
- 48 Frame
- Class F insulation
- Totally enclosed
- Single speed
- Continuous duty, air over
- UL and CSA recognized



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Replaces
Century 825 RPM Sleeve Bearing										
FSE1008SF	1/8	208-230	825	1.00	Reversible	1/2 x 6 1/2	4 1/4	Sleeve	5MFD/370V	Emerson 1872
FSE1018SF	1/6	208-230	825	1.10	Reversible	1/2 x 6 1/2	4 1/8	Sleeve	5MFD/370V	Emerson 1873 GE 3403
FSE1028SF	1/4	208-230	825	1.50	Reversible	1/2 x 6 1/2	4 5/8	Sleeve	5MFD/370V	Emerson 1874 GE 3404
FSE1038SF	1/3	208-230	825	2.10	Reversible	1/2 x 6 1/2	5 1/8	Sleeve	7.5MFD/370V	Emerson 1875 GE 3405
FSE1058SF	1/2	208-230	825	2.50	Reversible	1/2 x 6 1/2	5 5/8	Sleeve	10MFD/370V	Emerson 1870
Century 825 RPM Ball Bearing										
FE1008SF	1/8	208-230	825	1.00	Reversible	1/2 x 6 1/2	4 1/4	Ball	5MFD/370V	GE 3202
FE1018SF	1/6	208-230	825	1.10	Reversible	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	GE 3203
FE1028SF	1/4	208-230	825	1.50	Reversible	1/2 x 6 1/2	4 5/8	Ball	5MFD/370V	GE 3204
FE1038SF	1/3	208-230	825	2.10	Reversible	1/2 x 6 1/2	5 1/8	Ball	7.5MFD/370V	GE 3205
FE1058SF	1/2	208-230	825	2.50	Reversible	1/2 x 6 1/2	5 5/8	Ball	10MFD/370V	
Century 1075 RPM Sleeve Bearing										
FSE1016SF	1/6	208-230	1075	1.40	Reversible	1/2 x 6 1/2	4	Sleeve	5MFD/370V	Emerson 1859 GE 3727
FSE1026SF	1/4	208-230	1075	2.00	Reversible	1/2 x 6 1/2	4 3/8	Sleeve	5MFD/370V	Emerson 1860 GE 3728
FSE1036SF	1/3	208-230	1075	2.80	Reversible	1/2 x 6 1/2	4 7/8	Sleeve	7.5MFD/370V	Emerson 1861 GE 3729
FSE1056SF	1/2	208-230	1075	4.00	Reversible	1/2 x 6 1/2	5 3/8	Sleeve	10MFD/370V	Emerson 1862 GE 3730
FSE1076SF	3/4	208-230	1075	5.10	Reversible	1/2 x 6 1/2	5 5/8	Sleeve	15MFD/370V	Emerson 1868 GE 3731
Century 1075 RPM Ball Bearing										
FE1016SF	1/6	208-230	1075	1.40	Reversible	1/2 x 6 1/2	4	Ball	5MFD/370V	
FE1026SF	1/4	208-230	1075	2.00	Reversible	1/2 x 6 1/2	4 3/8	Ball	5MFD/370V	Emerson 1876 GE 3732
FE1036SF	1/3	208-230	1075	2.80	Reversible	1/2 x 6 1/2	4 7/8	Ball	7.5MFD/370V	Emerson 1877 GE 3733
FE1056SF	1/2	208-230	1075	4.00	Reversible	1/2 x 6 1/2	5 3/8	Ball	10MFD/370V	Emerson 1878 GE 3734
FE1076SF	3/4	208-230	1075	5.10	Reversible	1/2 x 6 1/2	5 5/8	Ball	15MFD/370V	Emerson 1879 GE 3735

MasterFit® Pro Outdoor Condenser Fan Motors



Features

- All purpose, multi-rating capacitor in every box
- Permanent split capacitor
- Extended thru bolts
- Rheem mounting holes in shells
- 4 end frame mounting holes for Rheem and Trane on all condenser fan motors
- Class F insulation
- Energy efficient
- Ball bearing
- Reversible
- Totally enclosed
- 60 Hertz
- 70°C ambient
- 2 Speeds

Item ID	H.P.	Volts	RPM	Amps	Speed to Use	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Frame	Capacitor @ 208V	Capacitor @ 230V	Replaces
Century												
FE6001F	1/3	208-230	825	1.90	High	Reversible	1/2 x 6 1/2	5 1/4	48Y	10MFD/370V	7.5MFD/370V	Emerson 5464
	1/4			1.50	High							
	1/5			1.20	Low							
	1/6			1.00	Low							
FE6000F	1/3	208-230	1075	2.60	High	Reversible	1/2 x 6 1/2	4 7/8	48Y	7.5MFD/370V	5MFD/370V	Emerson 5462
	1/4			2.50	High							
	1/5			2.00	Low							
	1/6			1.80	Low							
FE6002F	1/2	208-230	1075	3.90	High	Reversible	1/2 x 6 1/2	5 3/8	48Y	12.5MFD/370V	10MFD/370V	Emerson 5465
	1/3			2.20	High							
	1/4			1.60	Low							
	1/5			1.30	Low							

HeatMaster® Fan Canopy



Features

- 70°C (158°F) max ambient
- UL/CSA approved Class F insulation
- Energy-efficient PSC and three phase design
- Patented fan canopy
- Vertical shaft up only
- Double sealed ball bearing
- Open, air over
- Reversible
- 60 Hertz only
- Totally Enclosed
- Single Speed
- 48 Frame
- UL and CSA recognized

Item ID	H.P.	Volts	RPM	Amps @		Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Capacitor Required	Replaces	Notes
				230V	460V						
Century Single Phase											
FC1046F	2/5	200-230/460	1075	3.20	1.60	Reversible	1/2" Flat x 3 9/16	5 5/16	5MFD/370V	GE 03945	511
FC1066F	3/5	200-230/460	1075	4.00	2.00	Reversible	1/2" Flat x 3 9/16	6 15/16	7.5MFD/370V	GE 03946	511
FC1066AF	3/5	200-230/460	1075	4.00	2.00	Reversible	5/8" Flat & Key x 3 9/16	6 15/16	7.5MFD/370V	GE 03196	511
FC1086F	4/5	200-230/460	1075	4.60	2.30	Reversible	1/2" Flat x 3 9/16	8 13/16	20MFD/370V	GE 03197	352 511
FC1086AF	4/5	200-230/460	1075	4.60	2.30	Reversible	5/8" Flat & Key x 3 9/16	8 13/16	20MFD/370V	GE 03198	511
FC1106F	1	200-230/460	1075	6.40	3.20	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	25MFD/370V	GE 03199	403 511
FC1156F	1 1/2	200-230/460	1075	7.00	3.50	Reversible	5/8" Flat & Key x 4 1/16	10 1/6	25MFD/370V		403
Century Three Phase											
FC3056F	1/2	200-230/460	1140	3.00	1.50	Reversible	1/2" Flat x 3 9/16	6 15/16	—	GE K1403	
FC3076F	3/4	200-230/460	1140	4.00	2.00	Reversible	5/8" Flat & Key x 4 1/16	9 1/16	—	GE K1404	
FC3106F	1	200-230/460	1140	5.60	2.80	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	—		
FC3156F	1 1/2	200-230/460	1140	5.80	2.90	Reversible	5/8" Flat & Key x 4 1/16	9 9/16	—		

Notes:

352. Includes 5/8" adapter and key
 403. All 1 HP and 1 1/2 HP Motor supplied with conversion kit allowing to be used in most 56 frame applications

511. Suitable for use with some solid state speed control devices

6 1/2 Inch Diameter Three Phase Commercial Condenser Fan Motors

MOTORS



Features

- Class B moisture - resistant insulation
- 5/8 inch diameter shaft with keyway and flat
- Double sealed ball bearings
- 1.0 service factor
- Automatic overload
- 60°C ambient
- Single speed
- 60 Hertz
- Three phase
- Air over

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Frame	Enclosure	Mounting	Notes
Century											
H567	3/4	460/200-230	1140	1.50/2.80-3.00	Reversible	5/8 x 6	10 3/8	56	Open Shaft End	Belly Band	
H686	1	460/200-230	850	2.00/4.40-4.00	Reversible	5/8 x 4 7/8	9 3/8	56	Open Shaft End	Belly Band	319
H667	1	460/200-230	1140	2.60/5.30-5.20	Reversible	5/8 x 6	10 7/8	56	Open Shaft End	Belly Band	
H767	1 1/2	460/200-230	1140	3.00/5.80-6.00	Reversible	5/8 X 6	10 7/8	56	Open Shaft End	Belly Band	407 520

Notes: 319. No keyway, double flat 407. 70°C ambient 520. 1.15 service factor

JuggerNaut® Inverter Duty Condenser Fan Motors

Features

- Inverter duty: corona free with conductive bearing grease for reliable use with today's inverters
- Corrosion resistant coating on rotor core for longer motor life
- 100% copper windings and optimum winding design minimize losses
- Non-hygroscopic class F insulation system achieves superior dielectric strength for long thermal life
- Ultra-high-torque designs handle even the heaviest loads
- VCM™: voltage change module makes changing voltages quick and easy
- Electrically reversible rotation change with quick connect terminal board
- Heavy duty, double sealed, anti-friction, high performance ball bearings for long reliable life
- Easy to remove 56H rigid base provides multiple mounting options
- Extra mounting nuts are supplied to allow for quick installations
- Automatic overload protector reduces nuisance trip outs
- Positioning lugs make easy work of belly band mounting
- Conservationist™: energy efficient three phase design
- Bearing is locked on opposite shaft end
- UL recognized and CSA certified
- Enclosed shaft up mounting
- 70°C (158°F) max ambient
- Continuous duty, air over
- Three phase
- Single speed
- 50/60 Hertz



Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Belly Band	Replaces Belly Band	Rigid Base
Century									
H1050A	1.0	460/208-230	1140	2.20/4.40-4.00	5/8 x 6	10 5/8	Marathon X502 Emerson 1818 G.E. K379 Fasco D6608	Leeson 111147 Baldor CFM3156A Mars 3189	Marathon X513 Emerson 1820 G.E. K1485 Leeson 115778
H1051A	1.5	460/208-230	1140	2.90/5.80-5.80	5/8 x 6	11 5/8	Marathon X503 Emerson 1819 G.E. K380 Fasco D6610	Leeson 111148 Baldor CFM3166A Mars 3190	Marathon X523 Emerson 1821 G.E. K1486 Leeson 115779
H1052A	2.0	460/208-230	1140	3.70/7.40-7.00	5/8 x 6	12 5/8	Marathon X509	Emerson 8987	Marathon X525 Emerson 1822
H1053A	1.0	460/208-230	850	2.60/5.20-5.00	5/8 x 6	12 5/8	Marathon X507 Emerson 1828	G.E. K1482 Mars 1482	Marathon X528
H1054	1.5	460/208-230	850	3.60/6.70-7.20	5/8 x 6	13 1/8	Marathon X530		Marathon X531

Notes: It is the responsibility of the installer to properly adjust the drive to the motor for the specific application. The correct volts/Hz settings are application specific and unique to each motor. Failure to perform proper set up can lead to substandard performance and/or premature failure of the system components. All other replacements are not inverter duty.

Ball Bearing Outdoor Condenser Fan Motors



FB1056



FB1076



FB1106

Features

- Automatic overload
- Resilient base mounted
- Includes capacitor mounted on motor
- Open lead end only
- 60°C ambient
- Reversible rotation
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Shaft	Bearings	Frame	Base	Replaces
Century											
FB1056	1/2	208-230/460	1075	5.20/2.60	Reversible	1/2 x 4.50	1/2" Flat	Ball	48Z	Resilient	Dunham Bush MTR-226
FB1076	3/4	208-230/460	1075	6.00/3.00	Reversible	5/8 x 4.95	5/8" Key & Flat	Ball	56Y	Resilient	Kramer Trenton 045-004 Universal HF3W0R8K Universal HF3W052N
FB1106	1	208-230/460	1075	7.60/3.80	Reversible	5/8 x 4.50	5/8" Key & Flat	Ball	56Y	Resilient	Motor used on Kramer Trenton units DD661, DD791

Evaporative Cooler Motors

Applications

- Belt driven evaporative coolers



Features

- Ball Bearing
- Brass current carrying terminal board parts
- Class B insulation
- Continuous filtration of oil
- Electro-zinc plated governor parts, dust caps, terminal board cover
- Heavy magnet wire insulation
- High viscosity encapsulating varnish
- Moisture resistance terminal board
- No frame ventilation openings in the top portion of the frame
- 7 1/2" ring to ring dimension (Split Phase)
- 60 Hertz
- Automatic overload
- NEMA 56Z Frame
- 1.0 Service Factor

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure
Century Split Phase											
VB2034	1/3	115	1725	6.50	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
SVB2034	1/3-1/10	115	1725/1140	6.50/3.60	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
VB2054	1/2	115	1725	7.80	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
SVB2054	1/2-1/6	115	1725/1140	8.50/4.10	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
SVB2054H	1/2-1/6	230	1725/1140	4.40	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
VB2074	3/4	115	1725	10.60	1	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
SVB2074	3/4-1/4	115	1725/1140	10.50/5.00	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
SVB2074H	3/4-1/4	230	1725/1140	5.60/2.80	2	CCWLE	1/2 x 1 5/8	9.45	Split Phase	Ball	Open drip proof
Century Capacitor Start											
SV2104L	1-1/3	115	1725/1140	12.70/7.60	1	CCWLE	1/2 X 1 5/8	12.1	Capacitor Start	Ball	Open
SV2104HL	1-1/3	230	1725/1140	6.40/3.90	2	CCWLE	1/2 X 1 5/8	12.1	Capacitor Start	Ball	Open

5 5/8 Inch Diameter Direct Drive Blower Motors

MOTORS



Features

- Permanent split capacitor
- Continuous air over
- 2 1/2 inch mounting rings
- Class B insulation
- 40°C ambient
- Electrically reversible
- Open enclosure
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required	Notes
Century											
DL1026	1/4	115	1075	3.50	3	1/2 x 4 1/2	4 1/8	PSC	Sleeve	5MFD/370V	
D1026	1/4	208-230	1075	1.80	3	1/2 x 4 1/2	4 1/8	PSC	Sleeve	5MFD/370V	
DL1036	1/3	115	1075	4.90	3	1/2 x 4 1/2	4 1/2	PSC	Sleeve	7.5MFD/370V	
D1036AO	1/3	208-230	1075	2.60	3	1/2 x 4 1/2	4 3/8	PSC	Sleeve	5MFD/370V	
DL1056	1/2	115	1075	6.50	3	1/2 x 4 1/2	5	PSC	Sleeve	10MFD/370V	
D1056AO	1/2	208-230	1075	3.20	3	1/2 x 4 1/2	4 7/8	PSC	Sleeve	7.5MFD/370V	
DL1076	3/4	115	1075	8.90	3	1/2 x 4 1/2	5 5/8	PSC	Sleeve	15MFD/370V	264
D1076	3/4	208-230	1075	4.00	3	1/2 x 4 1/2	5 5/8	PSC	Sleeve	10MFD/370V	
BDL1106	1	115	1075	12.30	3	1/2 x 6	6	PSC	Ball	20MFD/370V	
BD1106	1	208-230	1075	5.10	3	1/2 x 6 1/2	5 5/8	PSC	Ball	20MFD/370V	187 424
BDH1106	1	460	1100	3.20	3	1/2 x 6 1/2	5 7/8	PSC	Ball	15MFD/370V	187 308 321
Fasco											Notes
D721	1/4-1/5-1/6	115	1075	4.80	3	1/2 x 6	4	PSC	Sleeve	15MFD/370V	138 148
D725	1/4-1/6-1/8	208/230	1075	2.20	3	1/2 x 6	4	PSC	Sleeve	15MFD/370V	138 148
D727	1/3-1/4-1/5	115	1075	5.90	3	1/2 x 6	4 1/4	PSC	Sleeve	5MFD/370V	138 148
D923	1/3-1/4-1/5	208-230	1075	2.90	3	1/2 x 6	4 1/4	PSC	Sleeve	5MFD/370V	138 148
D701	1/2-1/3-1/4-1/5	115	1075	7.70	4	1/2 x 5 1/2	5 1/4	PSC	Sleeve	10MFD/370V	138 148
D703	1/2-1/3-1/4	208-230	1075	4.00	3	1/2 x 6	5	PSC	Sleeve	7.5MFD/370V	138 148
D728	3/4-1/2-1/3	115	1075	10.50	3	1/2 x 6	5 1/2	PSC	Sleeve	10MFD/370V	138 148
D729	3/4-1/2-1/3	208-230	1075	5.40	3	1/2 x 6	5 1/2	PSC	Sleeve	10MFD/370V	138 148
D712	1-1/2-1/3	115	1075	11.80	3	1/2 x 6	6	PSC	Sleeve	20MFD/370V	138 148
D711	1-1/2-1/3	208-230	1075	5.30	3	1/2 x 6	5 1/2	PSC	Sleeve	20MFD/370V	138
Packard											Replaces
NEW 43581	1/6-1/8-1/10	115	1075	2.50-1.80-1.50	3	1/2 x 5 1/2	4	PSC	Sleeve	5MFD/370V	GE 3581 Emerson 8891
NEW 43582	1/6-1/8-1/10	208-230	1075	1.40-0.90-0.50	3	1/2 x 7	4	PSC	Sleeve	5MFD/370V	GE 3582 Emerson 8896
43583	1/4-1/6-1/8	115	1075	4.40	3	1/2 x 4	4	PSC	Sleeve	5MFD/370V	GE 3583 Emerson 1863
43584	1/4-1/6-1/8	208-230	1075	1.70	3	1/2 x 4	4	PSC	Sleeve	5MFD/370V	GE 3584 Emerson 1971
43585	1/3-1/4-1/6	115	1075	6.30	3	1/2 x 4	4 1/4	PSC	Sleeve	5MFD/370V	GE 3585 Emerson 1864
43586	1/3-1/4-1/6	208-230	1075	2.60	3	1/2 x 4	4 1/4	PSC	Sleeve	5MFD/370V	GE 3586 Emerson 1972
43587	1/2-1/3-1/4	115	1075	7.50	3	1/2 x 4	5 1/4	PSC	Sleeve	5MFD/370V	GE 3587 Emerson 1865
43588	1/2-1/3-1/4	208-230	1075	3.40	3	1/2 x 4	5 1/4	PSC	Sleeve	5MFD/370V	GE 3588 Emerson 1973
43589	3/4-1/2-1/3	115	1075	10.50	3	1/2 x 4	5 1/4	PSC	Sleeve	15MFD/370V	GE 3589 Emerson 8904
43590	3/4-1/2-1/3	208-230	1075	4.60	3	1/2 x 4	5 1/4	PSC	Sleeve	10MFD/370V	GE 3590 Emerson 8905
48906	1	115	1075	19.70	3	1/2 x 6 1/2	5.87	PSC	Ball	20MFD/370V	GE 3595 Emerson 8906
48907	1	208/230	1075	9.80	3	1/2 x 6 1/2	5.87	PSC	Ball	20MFD/370V	GE 3596 Emerson 8907

Notes:

138. All angle mount bearings. Use rain shield when necessary
 148. Ideal for blowers and fans used in furnaces and air-conditioners

187. Resilient mounting rings included
 264. 50°C ambient
 308. Reconnect for separate speeds

321. No extended thru bolts
 424. 1/2" double flat shaft, 2 1/2" rings

5 5/8 Inch Diameter Multi-Horsepower Direct Drive Blower Motors



Century MasterFit™



Packard Multi-HP

Features

- Permanent split capacitor
- Multiple capacitor/speed combinations
- Continuous duty, air over
- Mounting rings, thru bolts and holes in shell
- Class B insulation
- Reversible rotation
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase
- 4 Speed

Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Bearings	Enclosure	Replaces
Century									
FDL6001	1/2, 1/3, 1/4, 1/5, 1/6	115	1075	7.00, 6.70, 4.40, 3.20, 2.40	Reversible	PSC	Sleeve	Open	Emerson 5460 Rheem 51-23012-41
FD6000	1/2, 1/3, 1/4, 1/5, 1/6	208-230	1075	3.90, 3.60, 2.50, 1.80, 1.30	Reversible	PSC	Sleeve	Open	Emerson 5461 Rheem 51-23022-41
7FD6000	1/2, 1/3, 1/4, 1/5, 1/6	277	1075	3.30, 2.30, 1.70, 1.30, 1.00	Reversible	PSC	Sleeve	Open	—
FDL6002	3/4, 1/2, 1/3, 1/4, 1/5	115	1075	9.10, 6.60, 5.50, 3.00, 2.30	Reversible	PSC	Ball	Open	Emerson 5470
FD6001	3/4, 1/2, 1/3, 1/4, 1/5	208-230	1075	3.90, 3.60, 3.00, 2.30, 2.00	Reversible	PSC	Ball	Open	Emerson 5471
7FD6001	3/4, 1/2, 1/3, 1/4, 1/5	277	1075	3.60, 2.30, 1.70, 1.30, 1.00	Reversible	PSC	Ball	Open	—

Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Bearings	Enclosure	Replaces
Packard									
45460	1/2-1/3-1/4-1/5-1/6	115	1075	5.80-5.10-3.50-3.20-2.20	Reversible	PSC	Sleeve	Open	Emerson 5460 Rheem 51-23012-41
45461	1/2-1/3-1/4-1/5-1/6	208-230	1075	2.90-2.50-1.80-1.40-1.30	Reversible	PSC	Sleeve	Open	Emerson 5461 Rheem 51-23022-41
45470	3/4-1/2-1/3-1/4-1/5	115	1075	9.10-6.50-5.50-4.00-2.60	Reversible	PSC	Ball	Open	Emerson 5470 Rheem 51-23017-41
45471	3/4-1/2-1/3-1/4-1/5	208-230	1075	4.60-3.30-3.40-2.30-1.70	Reversible	PSC	Ball	Open	Emerson 5471 Rheem 51-21898-01

5 5/8 Inch Diameter Torsion Flex Direct Drive Blower Motors



Features

- Permanent split capacitor
- Continuous air over
- Energy efficient
- Electrically reversible
- Automatic overload
- Open enclosure
- Single phase
- 48 Frame
- 60 Hertz

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Capacitor Required
Packard											
NEW 43782	1/6	115	1075	2.50	3	Reversible	1/2 x 5	4	PSC	Sleeve	5MFD/370V
43783	1/4	115	1075	3.60	4	Reversible	1/2 x 6	4	PSC	Sleeve	5MFD/370V
43784	1/4	208-230	1075	1.80-2.00	4	Reversible	1/2 x 6	4	PSC	Sleeve	5MFD/370V
43785	1/3	115	1075	4.80	4	Reversible	1/2 x 6	4 1/4	PSC	Sleeve	10MFD/370V
43786	1/3	208-230	1075	2.30-2.60	4	Reversible	1/2 x 6	4 1/4	PSC	Sleeve	10MFD/370V
43787	1/2	115	1075	8.00	4	Reversible	1/2 x 6	5 7/8	PSC	Sleeve	10MFD/370V
43788	1/2	208-230	1075	3.30-4.00	4	Reversible	1/2 x 6	5 7/8	PSC	Sleeve	10MFD/370V
NEW 43789	3/4	115	1075	9.00	3	Reversible	1/2 x 5	5.41	PSC	Sleeve	15MFD/370V
NEW 43790	3/4	208-230	1075	4.50	3	Reversible	1/2 x 5	5.41	PSC	Sleeve	10MFD/370V

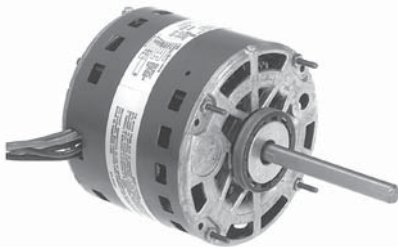
Two And Three Speed Direct Drive Blower Motors

Applications

- Designed for continuous air over applications, such as furnace blowers or central air handling units with single shaft requirements.

Features

- Reversible rotation
- Automatic overload
- Single phase
- 5 1/2 inch diameter
- Permanent split capacitor
- Standard efficiency designs
- 4 inch shaft extension
- Extended clamp screws on shaft end with a ring kit provided
- Mounting holes in shell for capacitor bracket
- Designed for 370 Volt capacitor, not included.
- Ring kit allows both 2 1/4 inch and 2 1/2 inch resilient ring mounting



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Base
genteq									
3383	1/4	115	1075	4.20	2	Reversible	PSC	Sleeve	2RR
3583	1/4	115	1075	4.20	3	Reversible	PSC	Sleeve	2RR
3384	1/4	208-230	1075	2.00	2	Reversible	PSC	Sleeve	2RR
3584	1/4	208-230	1075	2.00	3	Reversible	PSC	Sleeve	2RR
3385	1/3	115	1075	6.20	2	Reversible	PSC	Sleeve	2RR
3585	1/3	115	1075	6.10	3	Reversible	PSC	Sleeve	2RR
3386	1/3	208-230	1075	2.90	2	Reversible	PSC	Sleeve	2RR
3586	1/3	208-230	1075	2.70	3	Reversible	PSC	Sleeve	2RR
3387	1/2	115	1075	9.00	2	Reversible	PSC	Sleeve	2RR
3587	1/2	115	1075	9.00	3	Reversible	PSC	Sleeve	2RR
3388	1/2	208-230	1075	4.30	2	Reversible	PSC	Sleeve	2RR
3588	1/2	208-230	1075	4.30	3	Reversible	PSC	Sleeve	2RR
3389	3/4	115	1075	10.30	2	Reversible	PSC	Sleeve	2RR
3589	3/4	115	1075	11.20	3	Reversible	PSC	Sleeve	2RR
3390	3/4	208-230	1075	5.20	2	Reversible	PSC	Sleeve	2RR
3590	3/4	208-230	1075	5.00	3	Reversible	PSC	Sleeve	2RR

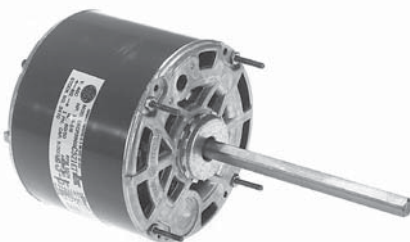
460 Volt Two Speed Direct Drive Blower Motors

Applications

- Designed for continuous air over applications, such as high voltage fan and blower systems.

Features

- Energy Saver designs
- Ball bearings
- Extended clamp screws
- Designed for 50Hz or 60Hz operation
- Single phase
- 5 1/2 inch diameter
- Open enclosure
- Single shaft
- Automatic overload



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings
genteq								
3470	1/4	460	1625	0.80	2	Reversible	PSC	Ball
3280	1/3	460	1075	1.10	2	Reversible	PSC	Ball
3490	1/2	460	1625	1.70	2	Reversible	PSC	Ball
3290	3/4	460	1075	2.10	2	Reversible	PSC	Ball



48 Frame Blower Retrofits

Energy Savings . Quiet Operation Comfort . Indoor Air Quality

Evergreen IM is a high-efficiency ECM replacement motor that is designed to replace factory PSC blower motors in HVAC systems. That means you can now offer your customers the comfort and efficiency of ECM in an easy-to-install replacement motor.

Built from the same trusted, field-proven ECM technology that is found in millions of OEM systems nationwide. Evergreen uses up to 25% fewer watts in operating mode and up to 74% fewer Watts than a PSC motor in constant fan. This motor is dual voltage 115/230VAC, reversible, multi-horsepower, and designed for all residential HVAC systems of less than 5 tons of cooling and 150k BTU of heating. It also incorporates BlakBox fault reporting.

Applications

Replaces PSC motors in residential or light commercial HVAC systems including fossil fuel, electric heat, A/C, heat pump, dual fuel and geothermal; does not replace variable speed or X13 ECM motors.

Features

- Two Motors cover most applications
- Multi-volt 115/230VAC and reversible rotation
- Integrated with HVAC system controls/operation
- Four speed selections for heating and cooling
- Optimized constant fan speed
- Reduce truck stock, no capacitors to change out or stock
- Direct drive blower motors
- 1/2 inch diameter flat shaft
- CW/CCW rotation
- 5.5 inch diameter
- Automatic protection
- Ball bearing
- Open enclosure
- 50/60 Hertz
- Band mounting
- Continuous duty



Item ID	H.P.	Volts	RPM	Amps	Replaces
genteq - Evergreen Motors					
6005	1/5, 1/4, 1/3, 1/2	115/230	1070	6.70/4.00	GE 5SME39HXL110
6010	1	115/230	1070	11.00/6.70	GE 5SME39SXL111

Comfort Select™ ~ FB ECM Motors

High Efficiency Furnace Blower Motors Utilizing ECM Technology

Comfort Select~FB motors offer ultra quiet operation, premium air quality, and Green Choice® technology resulting in comfort for the home and comfort for the environment.

Applications

This highly efficient motor is a self-contained unit primarily intended for use in residential and light commercial HVAC indoor blower applications.

Features

- Available in 1 HP and 1/2 HP configurations to replace 1/4 HP to 1 HP 6-pole PSC motors
- Rated for operation in 50°C ambient in a continuous air-over environment
- Advanced motor protection through electronics provides greater operating life and increased reliability
- Connects directly to the System Control Board the same way the PSC motor was connected
- Five speed taps provide speed-torque profiles similar to multi-speed PSC motors
- Automatic detection of correct rotation for both backward and forward curved blowers
- A learn mode that provides improved efficiency and greater flexibility for matching PSC motor performance in a furnace/air-handler unit
- Available in 115V AC or 208-277V AC input voltage
- No complex wiring modifications or signal wires
- Peak efficiency up to 82%
- Class F motor insulation
- Built-in overheating protection
- 48 frame
- 1/2" x 4" shaft dimension



Item ID	H.P.	Volts	RPM	Amps	Replaces
Century - Comfort Select ~ FB ECM Motors					
CSL1056	1/2	115	1100-600	6.30	Emerson 5530ET
CSL1106	1	115	1100-600	11.60	Emerson 5550ET
CS1056	1/2	208-277	1100-600	3.60-3.00	Emerson 5531ET
CS1106	1	208-277	1100-600	6.90-5.70	Emerson 5551ET

48/56 Frame, Split Phase Belt Drive Fan And Blower Motors

MOTORS

Applications

- Centrifugal pumps, belt drive furnace blowers, fans

Features

- 40°C ambient
- Continuous duty
- 5/8 inch shaft adapter and key included
- Resilient base has 48 and 56 Frame mounting holes
- Full Service Factor ratings
- Class B insulation
- Sleeve bearings
- Electrically reversible
- Open drip proof enclosure
- 5 5/8 inch diameter
- Split phase
- Automatic overload
- 60 Hertz
- Single speed



Item ID	H.P.	Volts	RPM	Amps	Rotation	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Frame	Bearings	Replaces	
Packard												
45014	1/4	115	1725	4.80	Reversible	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	Emerson 8000 GE 4701 Marathon B206 Rotom BF4701 Rotom T5-R840	
45013	1/3	115	1725	6.60	Reversible	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	Emerson 8100 GE 4706 Marathon B207 Rotom BF4706 Rotom T5-R841	
45012	1/2	115	1725	8.30	Reversible	1.25	1/2 x 1 7/8	7 3/4	48/56	Sleeve	Emerson 8200 GE 4708 Marathon B208 Rotom BF4708 Rotom T5-R1542	

Applications

- Centrifugal pumps, belt drive furnace blowers, fans

Features

- 40°C ambient
- Continuous duty
- 5/8 inch shaft adapter and key included
- Resilient base has 48 and 56 Frame mounting holes
- Full Service Factor ratings
- Class B insulation
- Ball bearings
- Dual voltage
- Electrically reversible
- Open drip proof enclosure
- 5 5/8 inch diameter
- Split phase
- Automatic overload
- 60 Hertz
- Single speed



Item ID	H.P.	Volts	RPM	Amps	Rotation	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Frame	Bearings	Replaces
Packard											
45014D	1/4	115/208-230	1725	4.60/2.20-2.10	Reversible	1.30	1/2 x 1 7/8	6.75	48/56	Ball	Marathon 48S17D2055 Marathon B303
45013D	1/3	115/208-230	1725	6.60/3.40-3.10	Reversible	1.35	1/2 x 1 7/8	6.75	48/56	Ball	Marathon 48S17D2057 Marathon B305
45012D	1/2	115/208-230	1725	7.60/3.70-3.80	Reversible	1.25	1/2 x 1 7/8	8.58	48/56	Ball	Marathon 48S17D2059 Marathon B307
45230D	3/4	115/208-230	1725	11.60/5.90-5.80	Reversible	1.25	5/8 x 1 7/8	10.55	56H	Ball	Marathon 56S17D2060



For full line of pulleys, see page 126-132.



Split Phase Resilient Base Motors

MOTORS



Features

- Continuous duty
- Resilient base mounting
- Reversible rotation
- 40°C ambient
- Open and open drip proof enclosure
- Automatic overload
- Split phase
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Diameter (In.)	Frame	Notes
Century												
GF2014	1/6	115	1725	4.90	1.35	1/2 x 1 5/8	7.30	Sleeve	Open	5 5/8	48/56	3 266
GF2024	1/4	115	1725	5.40	1.35	1/2 x 1 5/8	7.50	Sleeve	Open Drip Proof	5 5/8	48/56	3 266
GF2034	1/3	115	1725	6.80	1.35	1/2 x 1 5/8	7.80	Sleeve	Open	5 5/8	48/56	3 266
GF2054	1/2	115	1725	8.00	1.25	1/2 x 1 5/8	8.30	Sleeve	Open Drip Proof	5 5/8	48/56	3 266
GK2074	3/4	115	1725	12.20	1.25	5/8 x 1 7/8	8.80	Sleeve	Open	6 1/2	56	
F681	3/4	230/115	1725	5.20/10.40	1.25	5/8 x 1 7/8	9.50	Sleeve	Open Drip Proof	6 1/2	56	
GK2104DV1	1	115/230	1725	15.60/7.80	1.25	5/8 x 1 7/8	10.30	Sleeve	Open	6 1/2	56	

Notes:

3. 5/8" Shaft adapter and key Included

266. 48/56 FR = 1/2" X 1 1/2" shaft with 5/8" shaft adapter - 48/56 slotted 3" height base



Features

- Continuous duty
- Resilient base mounting
- Reversible rotation
- 40°C ambient
- Open enclosure
- Automatic overload
- Split phase
- 60 Hertz
- Single phase
- Dual Voltage

Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Diameter (In.)	Frame	Notes
Century												
GF2024D	1/4	115/208-230	1725	5.20/2.60	1.35	1/2 x 1 5/8	7 1/2	Sleeve	Open	5 5/8	48/56	266
GF2034D	1/3	115/230	1725	6.40/3.20	1.35	1/2 x 1 5/8	7 1/3	Sleeve	Open	5 5/8	48/56	196 266
GF2054D	1/2	115/208-230	1725	8.20/4.10	1.25	1/2 x 1 5/8	8 1/3	Sleeve	Open	5 5/8	48/56	266

Notes:

196. Suitable for 208 volts @ 1.0 service factor

266. 48/56 FR = 1/2" X 1 1/2" shaft with 5/8" shaft adapter - 48/56 slotted 3" height base

Capacitor Start Resilient Base Motors



Features

- Capacitor start
- Single speed
- Resilient base mounting
- Reversible rotation
- Ball bearings
- Automatic overload
- 56 Frame
- 60 Hertz
- Single phase
- Class B insulation

Item ID	H.P.	Volts	RPM	Full Load Amps	Service Factor	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Diameter (In.)	Frame	Enclosure	Notes
Century												
C412V1	1/2	115/208-230	1725	9.00/4.00-4.50	1.25	5/8 x 2	9 1/8	Ball	6 1/2	56	Open Drip Proof	205
C426V1	3/4	115/208-230	1725	11.00/5.40-5.50	1.25	5/8 x 2	9 1/8	Ball	6 1/2	56	Open Drip Proof	205
C523V1	1	115/208-230	1725	12.60/6.20-6.30	1.15	5/8 x 2 3/8	9 1/2	Ball	6 1/2	56Z	Open Drip Proof	205 510

Notes:

205. Extended thru bolts, shaft end only

510. 5/8" keyed shaft - 2.31" long

MultiFit® Condenser Fan Motors

MOTORS



Features

Replaces hundreds of 1/4 - 1/12 horsepower applications

- All angle mount
- Class B insulation
- Reversing plug
- Totally enclosed
- 36 inch leads
- 60°C ambient
- Single speed
- Multi-mounting system
- Double sealed ball bearings
- Energy efficient PSC design
- One simple connection eliminates the need to select various horsepower or change capacitor sizes

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Hertz	Replaces
Century										
9722	1/8	208-230	1075	0.90	1/2 x 3	4	Ball	5MFD/370V	60	GE 2243 GE 2248 GE 2249 GE 2251
	1/10		1135	0.60						
	1/12		1155	0.50						
9723	1/4	208-230	1075	2.00	1/2 x 3	4 1/2	Ball	7.5MFD/370V	60	GE 2244 GE 2245 GE 2246 GE 2247 GE 2250
	1/5		1145	1.20						
	1/6		1165	1.00						
9724	1/4	208-230	1625	1.60	1/2 x 3	4 1/2	Ball	5MFD/370V	60	
	1/5		1715	1.00						
	1/6		1759	0.70						

Direct Drive Blower Motors



BL6410
BL6412
BL6413
BL6414
BL6416
BL6420



BL6407
BL6408
BL6409

Features

- Shaded pole
- 42 Frame
- 60 Hertz
- Open enclosure
- Single phase
- Automatic overload

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Mounting	Notes
Century												
BL6409	1/12	115	1050	3.10	1	CCWLE	1/2 x 3	3 7/8	Sleeve	Open	Resilient Rings	
BL6408	1/10	115	1050	3.90	1	CCWLE	1/2 x 3	3 7/8	Sleeve	Open	Resilient Rings	
BL6410	1/8	115	1050	5.20	1	CWSE	1/2 x 5 1/2	3 3/8	Sleeve	Open	Resilient Rings	187 201 205
BL6407	1/6	115	1000	7.80	1	CCWLE	1/2 x 3	3 7/8	Sleeve	Open	Resilient Rings	
BL6412	1/6	115	1050	5.50	1	CWSE	1/2 x 3 5/8	3 7/8	Sleeve	Open	Resilient Rings	187 201 205
BL6420	1/6-1/9	115	1050	5.60	2	CWSE	1/2 x 4 1/2	3 7/8	Sleeve	Open	Resilient Rings	187 201 205
BL6413	1/5	115	1050	6.00	1	CWSE	1/2 x 5 1/2	3 3/8	Sleeve	Open	Resilient Rings	187 201 205
BL6414	1/5-1/8-1/10	115	1050	6.50	3	CWSE	1/2 x 5 1/2	3 7/8	Sleeve	Open	Resilient Rings	187 201 205
BL6416	1/5-1/8-1/10-1/15	115	1050	7.10	4	CWSE	1/2 x 2 5/8	3 7/8	Sleeve	Open	Resilient Rings	187 201 205

Notes:

187. Resilient mounting rings included

201. 3 thru bolts, 4.42 dia. bolt circle

205. Extended thru bolts, shaft end only

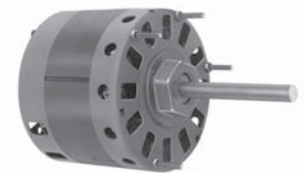
Direct Drive Blower Motors



D156
D318
D158



D356



D150
D151
D152

Features

- Shaded pole or permanent split capacitor
- Sleeve bearings
- Open enclosure
- Automatic overload
- Single phase
- 42 Frame
- 60 Hertz

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting	Notes
Fasco Shaded Pole												
D356	1/8-1/10-1/12	115	1050	4.70-3.70-3.20	3	CWSE	1/2 X 3 1/2	3 1/8	SP	Sleeve	Stud	
D156	1/6	115	1050	6.60	1	CWSE	1/2 x 3 7/8	3 7/8	SP	Sleeve	Resilient Rings	
D318	1/6-1/8	230	1050	3.10	2	CWSE	1/2 x 3 1/2	4	SP	Sleeve	Stud	⁹
D158	1/5-1/6-1/7	115	1050	6.70	3	CWSE	1/2 x 4 1/8	3 7/8	SP	Sleeve	Resilient Rings	
Fasco Permanent Split Capacitor												
D151	1/4-1/5-1/6	230	1050	2.00-1.40-1.10	3	Reversible	1/2 x 6	4 1/8	PSC	Sleeve	Stud	
D150	1/4-1/5-1/6	115	1050	4.10-3.20-2.50	3	Reversible	1/2 x 6	4 1/8	PSC	Sleeve	Stud	
D152	1/4-1/5-1/6-1/8	277	1050	1.50-1.10-0.80-0.70	4	Reversible	1/2 x 6	4 1/8	PSC	Sleeve	Stud	

Notes:

9. No mounting rings

19. Drilled and tapped for Coleman mounting

20. For International Oil Burner Co.

Direct Drive Blower Motors



Features

- Shaded pole
- CWSE rotation
- Automatic overload
- 42 Frame
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Mounting
Packard											
40849	1/6	115	1050	5.50	1	1/2 x 3 3/4	3 7/8	SP	Sleeve	Open	Resilient Rings
40850	1/5	115	1050	6.50	1	1/2 x 5 1/2	3 3/8	SP	Sleeve	Open	Resilient Rings
40851	1/5	115	1050	6.30	2	1/2 x 4 1/4	3 7/8	SP	Sleeve	Open	Resilient Rings
40852	1/5	115	1050	7.30	3	1/2 x 5	3 7/8	SP	Sleeve	Open	Resilient Rings
40853	1/5	208-230	1050	3.20	3	1/2 x 5 1/2	3 7/8	SP	Sleeve	Open	Resilient Rings

42 Frame Fan Coil Motors



Features

- Sleeve bearings
- Automatic overload
- Base is available - Item ID A60293
- Shaded pole or permanent split capacitor
- Models without a base fit existing bases on most fan coil units
- Open enclosure
- Single phase
- 60 Hertz

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting	Replaces	Notes
Packard Shaded Pole											
40089	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 3/8	Base		
40093	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 3/8 x 10 5/8	3 3/8	Base		
40320	1/10	208-230	1050	2.40	3	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 3/8	Base		
40389	1/10	115	1050	3.60	5	Double Shaft	10 5/8 x 1/2 x 10 5/8	3 3/8	2 1/2 Rings		28
40347	1/8	115	1550	3.30	4	Double Shaft	10 x 1/2 x 10	4	Hex Hubs	Universal 347	9 28
Packard Permanent Split Capacitor											
82456	1/25	115	1075	0.80	5	CCWLE	10 5/8 x 1/2 x 10 5/8	3/3/8	Resilient Base		

Notes: 9. No mounting rings

28. No base

42 Frame Fan Coil Motors



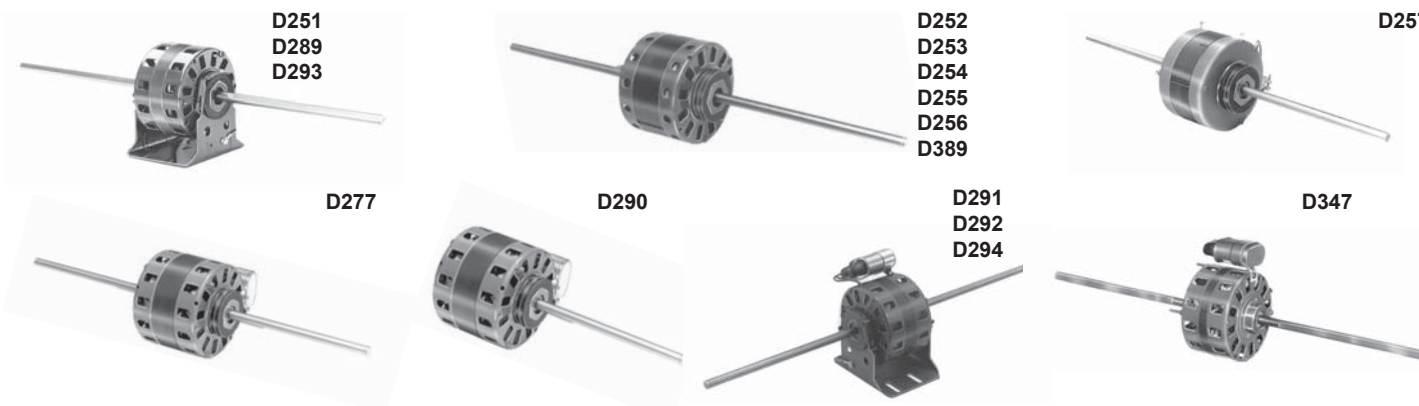
Features

- Sleeve bearings
- Open enclosure
- 42 Frame
- 60 Hertz
- Automatic overload
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Mounting
Century Shaded Pole								
DBL4404	1/10-1/15-1/20	115	1550	3.50	Double Shaft	9 5/16 x 1/2 x 9 5/16	3 3/8	Resilient Base
DB6407	1/10-1/15-1/20-1/25	208-230	1050	1.60	Double Shaft	9 5/16 x 1/2 x 9 5/16	3 3/8	Resilient Base
DBL6409	1/10-1/15-1/20-1/25-1/30	115	1050	3.50	Double Shaft	10 5/16 x 1/2 x 10 5/16	3 3/8	Resilient Base
Century Permanent Split Capacitor								
DBL4500V1	1/10-1/12-1/15	115	1625	1.30-1.00-0.70	CCWLE	9 5/16 x 1/2 x 9 5/16	3 3/8	Resilient Base
DBL6501	1/10-1/12-1/15-1/20	115	1075	1.70	CCWLE	10 5/16 x 1/2 x 10 5/16	3 3/8	Resilient Base
DB6502V1	1/10-1/15-1/20-1/25	208-230	1075	0.70-0.50-0.40-0.30	CCWLE	9 5/16 x 1/2 x 9 5/16	3 3/8	Resilient Base
DB4505	1/5-1/10-1/20	230	1500	1.50	CCWLE	9 5/16 x 1/2 x 9 5/16	3 3/8	Resilient Base
DB6525	1/4-1/6-1/10	208-230	1075	2.00	CCWLE	10 x 1/2 x 10	4 1/16	Resilient Base

42 Frame Fan Coil Motors

MOTORS



Features

- Sleeve bearings
- Automatic overload
- Single phase
- Shaded pole or permanent split capacitor
- 60 Hertz
- 42 Frame

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Mounting	Notes
Fasco Shaded Pole									
D255	1/25-1/50-1/80	115	1050	1.50-1.00-0.60	7 1/2 x 1/2 x 7 1/2	3 1/4	Open	Resilient Rings	
D252	1/20-1/40-1/70	115	1050	1.60-0.80-0.50	7 1/2 x 3/8 x 7 1/2	2 5/8	Open	Resilient Rings	
D253	1/20-1/40-1/50	115	1050	2.20-1.40-0.80	7 1/2 x 1/2 x 7 1/2	2 5/8	Open	Resilient Rings	
D251	1/15-1/35-1/50	208-230	1050	1.20-0.50-0.40	9 1/4 x 1/2 x 8 1/2	2 5/8	Open	Resilient Base	34
D254	1/15-1/30-1/50	115	1050	2.10-1.30-0.80	8 x 3/8 x 8	3 1/4	Open	Resilient Rings	
D389	1/15-1/20-1/30-1/50	115	1050	2.40-1.60-1.10-0.80	10 1/4 x 1/2 x 10 1/4	3 1/8	Open	Resilient Rings	
D257	1/15-1/20-1/25	277	1050	1.10-0.70-0.60	9 x 1/2 x 9	3 1/4	Totally Enclosed	Resilient Rings	
D289	1/10-1/30-1/40-1/45-1/50	115	1050	3.60-1.60-1.20-0.80-0.60	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	34
D293	1/10-1/30-1/40-1/45-1/50	115	1050	3.60-1.60-1.20-0.80-0.60	10 3/4 x 3/8 x 10 3/4	3 1/4	Open	Resilient Base	34
D256	1/10-1/20-1/30	115	1050	3.40-1.70-1.00	8 x 1/2 x 8	3 7/8	Open	Resilient Rings	
Fasco Permanent Split Capacitor									
D294	1/10-1/20-1/25-1/35-1/50	115	1050	1.30-1.00-0.70-0.60-0.50	10 3/4 x 3/8 x 10 3/4	3 1/4	Open	Resilient Base	516
D291	1/10-1/15-1/25-1/40	115	1050	2.20-1.40-1.00-0.70	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	514
D292	1/10-1/15-1/25-1/35	208-230	1050	1.00-0.70-0.40-0.30	10 3/4 x 1/2 x 10 3/4	3 1/4	Open	Resilient Base	514
D277	1/10-1/12-1/20	277	1050	0.70-0.50-0.40	8 1/2 x 1/2 x 8 1/2	3 7/8	Open	Resilient Rings	514
D290	1/10-1/15-1/25-1/40	115	1050	2.20-1.40-1.00-0.70	1/2 x 8 1/2	3 1/4	Open	Resilient Rings	514 517
D347	1/8-1/10-1/15-1/20	115	1550	2.30-1.50-1.10-1.70	10 1/2 x 1/2 x 10 1/2	3	Open	Resilient Rings	250 514
D354	1/6-1/10-1/20	115	1050	3.10-1.50-1.10	8 1/2 x 1/2 x 8 1/2	3 7/8	Open	Resilient Rings	514
D247	1/6-1/8-1/12	230	1550	1.00-0.70-0.50	8 x 1/2 x 8	3 7/8	Open	Resilient Rings	514

Notes:

34. 3 1/2" shaft height
250. Mounting rings not included

514. 4M 370V capacitor included
516. 6M 370V Capacitor included

517. Electrically reversible

4.4 Inch Diameter Fan Coil Motors



Features

- Sleeve bearings
- Open enclosure
- Shaded pole
- Automatic overload
- 60 Hertz
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Mounting
Fasco Shaded Pole								
D236	1/10-1/15-1/25	115	1550	3.50-2.40-1.80	7 1/2 x 1/2 x 7 1/2	3 3/8	Open	Resilient Base
D336	1/10-1/15-1/25	115	1550	3.50-2.40-1.80	7 1/2 x 3/8 x 7 1/2	3 1/2	Open	Resilient Rings
D337	1/8-1/10-1/12-1/15	115	1550	4.10-2.70-2.30-1.90	7 1/2 x 1/2 x 7 1/2	3 5/8	Open	Resilient Rings
D339	1/8-1/12	230	1550	2.00-1.40	6 1/2 x 1/2 x 6 1/2	4 1/8	Open	Resilient Rings
D338	1/6-1/10-1/12-1/15	115	1550	5.40-3.20-2.50-2.10	7 1/4 x 1/2 x 7 1/4	4 1/8	Open	Resilient Rings

Direct Replacements For Loren Cook's Gemini Motors

MOTORS



Features

- Permanently lubricated sealed sleeve bearings
- Open enclosure
- Automatic overload
- 60 Hertz

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Diameter (In.)	Mounting	Replaces
Packard												
90220	1/114	115	1500	0.75	2	CW	3/8 x 2 3/4	2 3/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 220/240
90320	1/16	115	1550	2.20	2	CW	3/8 x 2 1/2	2 5/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 320/340
90420	1/23	115	1500	1.50	1	CW	3/8 x 2 3/4	2 5/8	Shaded Pole	4.4	Thru Bolt	Gemini Loren Cook 420
90520	1/16	115	1200	1.50	1	CW	3/8 x 2 1/4	3	PSC Cap Included	5.12	Thru Bolt	Gemini Loren Cook 520
90620	1/11	115	1500	4.60	2	CW	1/2 x 6 1/4	3	Shaded Pole	4.4	Lug Mount	Gemini Loren Cook 620/640
90720	1/4	115	1625	3.90	2	CW	1/2 x 6 1/4	3 3/8	PSC Cap Included	5.12	Lug Mount	Gemini Loren Cook 720/740

Direct Replacements For Broan / Lomanco / Greenheck



Features

- Open enclosure
- Automatic overload
- 60 Hertz
- 42 Frame
- Single phase

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Mounting	Replaces
Packard												
69316	—	115	1100	3.40	1	CWSE	1/2 x 3 1/16	2 5/8	SP	Sleeve	Stud	Broan 97009316
69317	—	115	1100	4.30	1	CWSE	1/2 x 2 5/8	2 1/4	SP	Sleeve	Stud	Broan 97009317 Broan 99080267
70059	1/10	115	1100	3.40	1	CWSE	1/2 x 1 5/8	2 1/4	SP	Sleeve	Lug	Lomanco AO510B2497 Lomanco AO416B2059 Lomanco AO510B2389
90318	1/8	115	1550/1300/1050	2.60	3	CCWSE	1/2 x 2 3/4	3 5/8	PSC Cap Included	Ball	Thru Bolt	Greenheck 308318

Direct Replacement For L.L. Building Ventilators



Features

- Open enclosure
- Automatic overload
- 60 Hertz
- Single phase
- Direct replacements for Leslie Locke

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Diameter (In.)	Capacitor Included	Replaces
Packard												
99320	—	120	900	3.40	1	CWSE	1/2 x 2.05	2.25	SP	5.12	—	L.L. Building V909320
99319	1/4	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	5.12	10MFD/ 250V	L.L. Building V909319
99321	1/5	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	5.12	10MFD/250V	L.L. Building V909321 L.L. Building V909337
99371	1/7	120	1050	2.80	1	CWSE	1/2 x 2.30	3.08	PSC	5.12	8MFD/250V	L.L. Building V909371 L.L. Building V909336

Direct Replacements For General Electric 11 Frame



Features

- All angle unit bearings
- 60 Hertz
- Automatic overload
- 2.25 inch resilient rings
- Single speed / single phase
- Stud and resilient mounting
- 4 Holes #8-32 nc-2b on 2.84" bolt circle

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Enclosure	Replaces
Packard											
NEW 61431	1/30	115	1550	0.87	CWLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	
NEW 61441	1/30	115	1550	0.87	CCWLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	
61432	1/30	208-230	1550	0.87	CWLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	GE1432
NEW 61442	1/30	208-230	1550	0.87	CCWLE	5/16 x 1 1/4	4.82	Shaded Pole	Sleeve	Open	
61331	1/20	115	1550	2.20	CWLE	5/16 x 2	4.82	Shaded Pole	Sleeve	Open	GE 1331
61332	1/20	208-230	1550	1.10	CWLE	5/16 x 2	4.82	Shaded Pole	Sleeve	Open	GE 1332
61232	1/15	208-230	1550	0.93	CWLE	5/16 x 2	4.90	Shaded Pole	Sleeve	Open	GE 1232



Features

- Shaded pole
- Sleeve bearing
- Open enclosure
- 60 Hertz
- Automatic overload
- Bolt circle 2.84"

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Note
Fasco											
D477	1/35	208-230	1550	0.75	CCW	5/16 x 1 5/8	4 1/4	Sleeve	Open	GE 1432	40 43 44 46
D471	1/20	208-230	1550	1.10	CCW	5/16 x 2 1/2	4 1/4	Sleeve	Open	GE 1332	47
D473	1/20	115	1550	2.00	CCW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1331	47
D472	1/20	115	1550	1.90	CW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1341	47
D470	1/20	208-230	1550	0.94	CW	5/16 x 2 5/8	4 1/4	Sleeve	Open	GE 1342	47

Notes:

40. Mounting bracket designed to match the original motor (four 8-36 drilled and tapped holes)
 43. Mounting hardware included

44. Has 22" leads with 1/16" thick insulation
 46. Three studs opposite shaft end are 8-32 on a standard 2.84" bolt circle, 120° apart

47. Includes 1/2" studs for mounting

Direct Replacements For General Electric 11 Frame



Features

- Shaded pole
- Stud mounting
- 60 Hertz
- Automatic overload
- Single phase
- Rotation is determined by viewing the shaft end; leads are on shaft end
- Bolt circle 2.84"

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Replaces	Notes
Packard											
81671	1/15	115/230	1550	2.10-1.10	CCW	5/16 x 1 5/8	4 1/4	Sleeve	Totally Enclosed	GE 1331 GE 1332	486 487 488 489
81672	1/15	115/230	1550	2.10-1.10	CW	5/16 x 1 5/8	4 1/4	Sleeve	Totally Enclosed	GE 1341 GE 1342	486 487 488 489

Notes:

486. Drilled and tapped holes for mounting
 487. Includes 1 7/8" diameter mounting rings

488. 8/32 mounting studs included
 489. Rotation is determined by viewing the lead end

Permanent Split Capacitor Heatcraft Replacement Motors

MOTORS



9721



49101

Features

- Permanent split capacitor
- Multi-Horsepower
- Electrically reversible
- Open enclosure
- Single phase
- 50/60 Hertz
- 49101 has all copper windings
- All angle mounting
- UL and CSA approved
- Capacitor mounted on motor
- Includes reversing plug

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
Century									
9721	1/12	115/208-230	1550	1.10/0.50	5/16 x 3 1/4	3 5/8	Ball	Stud	Emerson 9656 Heatcraft 7071061 Emerson 9664 BOHN 25309101
Packard									
49101	1/12-1/15-1/20	115/208-230	1550/1400	1.10/0.60	5/16 x 3 1/8	3 5/8	Ball	Stud	GE 5KSM59ES2001 GE 5KSM59JSK1435 Heatcraft 7071061 GE 5KSM59JS5036S GE 5KSM59LS2262AS Heatcraft 25309101

3.3 Inch Diameter Direct Replacements For Bohn & Larkin



41101
41103



41124
41126



41125

Features

- Single speed
- Stud mounting
- Single phase
- Special Lyall plug and cord included
- Sleeve bearings
- Open enclosure
- Automatic overload
- 60 Hertz
- All copper windings

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Replaces	Notes
Packard										
41101	1/20	120	1500	1.90	CCWSE	5/16 x 2 1/4	2 3/4	Shaded Pole	Larkin 253-1194	329
41103	1/20	208-230	1500	0.93	CCWSE	5/16 x 2 1/4	2 7/8	Shaded Pole	Larkin 253-1195	329
41124	1/15	120	1550	2.00	CWSE	5/16 x 3	3	Shaded Pole	BOHN 5008S	329 551
41126	1/15	208-230	1550	1.10	CWSE	5/16 x 3	3 1/2	Shaded Pole	BOHN 5008T BOHN 5034L	329 500
41125	1/12	208-230	1550/1400	0.50	CCWSE	5/16 x 2 5/8	3 1/2	PSC	BOHN 25305101 BOHN 7071061	304 500

Notes:
304. Run capacitor mounted on motor shell
329. Motor has 4 studs on both ends

500. Includes cord and Lyall plug
551. Low Temp. Oil

3.3 Inch Diameter Direct Replacements For Krack



Features

Commercial Refrigeration Motor

- Shaded pole
- Totally enclosed
- Automatic overload
- Single phase
- 50/60 Hertz
- Rotation is determined by viewing the shaft end



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
Packard											
41189	1/20	115/208-230	1350/1550	1.60/0.80	1	CWSE	5/16 x 1 5/8	3 1/16	Ball	Lug	Krack 11528 Krack 11529 Universal JA2P216N Universal JA2P217N Universal JB2P046N Universal JB2P047N Franklin 8254111030 Franklin 8354110940

3.3 Inch Diameter Open Motors



Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
Packard												
80600	1/80	115	3000	0.65	1	CW	1/4 x 2 1/8	2 1/2	Sleeve	Stud	Emerson 9613 Nutone 16553	41
40120	1/70	115	1550	0.70	1	CW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	Emerson 9621	329
80865	1/70	115	1550	0.66	1	CCW	5/16 x 2 5/8	2 3/8	Sleeve	Resilient Hubs	Nutone 26721	41
80913	1/70	115	1550	0.66	1	CW	1/4 x 1 1/2	2 3/8	Sleeve	Resilient Hubs	Nutone C30434	41
40121	1/70	115	1550	0.70	1	CCW	1/4 x 2 1/4	2 1/16	Sleeve	Stud	Trane MOT-6225	329
82510	1/70	115	1320	0.85	1	CW	1/4 x 1 1/8	2 1/16	Sleeve	Stud	Nutone C65073	41 482
40933	1/50	120	1550	1.20	1	CCW	1/4 x 1	1 7/8	Sleeve	Stud	Nutone 86933 Nutone 86933000 UniversalJA2B104N	482
82633	1/50	120	1400	0.78	1	CW	5/16 x 1 3/8	2 1/2	Sleeve	Resilient Hubs	BROAN 99080273 BROAN 99080274 BROAN 99080633	
82036	1/40	115	3000	0.92	1	CW	1/4 x 2 1/2	3.06	Sleeve	Stud	Magnetek 36	
40126	1/40	115	1550	1.10	1	CW	5/16 x 2 1/4	2 7/16	Sleeve	Stud		329
40127	1/40	115	1550	1.10	1	CCW	5/16 x 2 1/4	2 7/16	Sleeve	Stud	Trane MOT-6227	
82127	1/40	115	1550	1.10		DS	5 5/8 x 3/8 x 5 5/8	2 1/2	Sleeve	Resilient rings		
82128	1/40	115	1550	1.30	3	CCWLE	2 1/2 x 5/16 x 2 1/2	2 1/4	Sleeve	Stud		
40514	1/30	115	1550	1.30	1	CW	5/16 x 2 3/8	2 1/2	Sleeve	Stud	Emerson 9628	
40515	1/30	115	1550	1.30	1	CCW	5/16 x 2 3/8	2 1/2	Sleeve	Stud		
82011	1/30	115	3000	1.10	1	CWLE	1 1/2 x 1/4 x 1 1/2	2 7/8	Sleeve	Stud		
40030	1/25	115	1550	1.70	1	CW	5/16 x 2 1/2	2 11/16	Sleeve	Stud		
40031	1/25	115	1550	1.70	1	CCW	5/16 x 2 1/2	2 3/4	Sleeve	Stud		
40132	1/20	115	1550	1.80	1	CW	5/16 x 2 1/4	2 3/4	Sleeve	Stud		329
40133	1/20	115	1550	1.80	1	CCW	5/16 x 2 1/4	2 3/4	Sleeve	Stud	Emerson 1548 Emerson 9631	329
40188	1/20	208-230	1550	0.80	1	CW	5/16 x 2 5/16	2 3/4	Sleeve	Stud	Emerson 9648	329
40189	1/20	208-230	1550	0.80	1	CCW	5/16 x 2 5/16	2 3/4	Sleeve	Stud	Emerson 9647	329
82621	1/10	115	1550	3.80	1	CCW	5/16 x 1 1/2	3 5/8	Ball	Stud	Nutone 67176 Nutone 32997	

Notes:

41. 1 1/8" Hubs
42. Includes cord and plug

329. Motor has 4 studs on both ends
482. Two prong plug and cord attached

3.3 Inch Diameter Open Motors

MOTORS



D120 **D188**
D121 **D189**
D126 **D202**
D127 **D203**
D132 **D206**
D133 **D210**



D128
D129



D130
D131
D208



D207



D209



D211
D213

Features

- Shaded pole
- Open enclosure
- Automatic overload
- Single phase
- 60 Hertz
- Rotation is determined by viewing the shaft end

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces	Notes
Fasco											
D129	1/125-1/200	115	1500	0.40-0.30	DS	3 1/4 x 1/4 x 3 1/4	2 1/8	Sleeve	Stud		
D202	1/85	115	3000	0.60	CW	1/4 x 2 1/4	2 3/8	Sleeve	Stud		496
D128	1/40-1/50-1/80	115	1500	1.30-0.90-0.60	DS	4 x 5/16 x 4	2 1/2	Sleeve	Stud		
D120	1/70	115	1500	0.70	CW	1/4 x 2 1/4	2 1/8	Sleeve	Stud		496
D121	1/70	115	1500	0.70	CCW	1/4 x 2 1/4	2 1/8	Sleeve	Stud		496
D126	1/40	115	1500	1.10	CW	5/16 x 2 1/4	2 1/2	Sleeve	Stud		496
D127	1/40	115	1500	1.00	CCW	5/16 x 2 1/4	2 1/2	Sleeve	Stud		496
D203	1/40	115	3000	1.00	CCW	1/4 x 2 1/4	2 3/4	Sleeve	Stud		496
D130	1/40	115	1500	1.00	CW	5/16 x 4 1/8	3 1/3	Sleeve	Stud	Emerson 3803 Trane MOT-6221	
D131	1/40	115	1500	1.00	CCW	5/16 x 2 1/4	3 1/3	Sleeve	Stud		
D206	1/30	115	3000	1.20	CW	1/4 x 2 1/4	2 3/4	Sleeve	Stud		496
D208	1/30	115	3000	1.10	CW	1/4 x 3	3 5/8	Sleeve	Stud		
D207	1/30	230	3000	0.60	DS	2 1/4 x 1/4 x 2 1/4	2 3/4	Sleeve	Stud		
D209	1/30	115	3000	1.10	DS	3 1/4 x 1/4 x 3 1/4	3 5/8	Sleeve	Stud		
D210	1/25	115	3000	1.30	CW	1/4 x 2 1/4	3 1/4	Sleeve	Stud		496
D188	1/20	230	1500	0.90	CW	5/16 x 2 1/4	2 7/8	Sleeve	Stud		496
D189	1/20	230	1500	0.90	CCW	5/16 x 2 1/4	2 7/8	Sleeve	Stud		496
D133	1/20	115	1500	1.80	CCW	5/16 x 2 1/4	2 3/4	Sleeve	Stud		496
D132	1/20	115	1500	1.80	CW	5/16 x 2 1/4	2 3/4	Sleeve	Stud		496
D213	1/15	115	3000	2.10	DS	2 3/4 x 1/4 x 2 3/4	3 7/8	Sleeve	Stud		
D211	1/15	230	3000	1.10	DS	2 1/2 x 1/4 x 2 1/2	3 7/8	Sleeve	Stud		

Notes:
 496. 4 studs on each end

3.3 Inch Diameter Totally Enclosed Motors



40122
40123
40124
40125



80402
80403
82500
82512
82514
82635
82637
82733



82513



82694K

Features

- Direct replacements for Nutone and many other popular range hoods
- Rotation is determined by viewing the shaft end
- Shaded pole
- Stud mounting
- Automatic overload
- Single phase
- 60 Hertz
- Totally enclosed

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Replaces	Notes
Packard											
82512	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/8	2 1/16	Sleeve	Nutone 26750 Nutone 26761	42
82513	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/4	2 1/16	Sleeve	Nutone 23388 Nutone 23405	41 42
82514	1/100	115	1550	0.70	1	CW	1/4 x 1 1/8	2 1/16	Sleeve		42
82635	1/91	115	1550	0.45	1	CCW	5/16 x 1 1/8	2.09	Sleeve	Nutone 54123 Nutone 54257	42
40122	1/80	115	1550	0.65	1	CW	1/4 x 2 1/4	2 1/16	Sleeve		329
40123	1/80	115	1550	0.65	1	CCW	1/4 x 2 1/4	2 1/16	Sleeve		329
82637	1/75	115	1550	0.63	1	CCW	1/4 x 1 1/8	2	Sleeve	Nutone 53581	42
82500	1/70	115	3000	1.04	1	CCW	1/4 x 1	2 3/8	Sleeve	Emerson 2694 Motor Only	
82694K	1/70	115	3000	1.04	1	CCW	1/4 x 1	2 3/8	Sleeve	Emerson 2694	42
80402	1/60	115	3000	0.75	1	CW	1/4 x 1 3/4	2 3/8	Sleeve		
80403	1/60	115	3000	0.75	1	CCW	1/4 x 1 3/4	2 3/8	Sleeve		
40124	1/50	115	1500	0.88	1	CW	1/4 x 2 1/4	2 3/8	Sleeve		329
40125	1/50	115	1550	0.80	1	CCW	1/4 x 2 1/4	2 3/8	Sleeve		329
82733	1/50-1/80	115	3000	1.00-0.60	2	CW	1/4 x 1 1/4	2.59	Sleeve	Nutone C26733	42

Notes:

41. 1 1/8" Hubs

42. Includes cord and plug

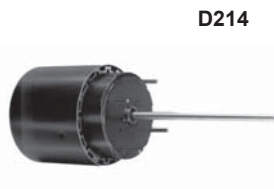
329. Motor has 4 studs on both ends



D122
D123
D124
D125



D205



D214

Features

- Shaded Pole
- Totally Enclosed
- Automatic Overload
- 60 HZ
- Single Phase
- Rotation is determined by viewing the shaft end

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting
Fasco										
D123	1/80	115	1500	0.60	1	CCW	1/4 x 2 1/4	2 1/8	Sleeve	Stud
D122	1/80	115	1500	0.60	1	CW	1/4 x 2 1/4	2 1/8	Sleeve	Stud
D125	1/50	115	1500	0.75	1	CCW	1/4 x 2 1/4	2 1/2	Sleeve	Stud
D124	1/50	115	1500	0.75	1	CW	1/4 x 2 1/4	2 1/2	Sleeve	Stud
D205	1/40-1/70	115	3000	1.00-0.50	1	DS	3 x 1/4 x 3	2 7/8	Sleeve	
D214	1/20	115/230	3000	1.70-0.80	1	CW	5/16 x 6 1/2	4 5/8	Sleeve	

Shaded Pole Motors

MOTORS



Applications

- Fan duty, industrial and commercial refrigeration for condensing, ventilating and evaporating units, walk-in and reach-in coolers, freezers, food and beverage chillers.

Features

- All angle bearings
- Totally Enclosed
- Self-lubricating and self-aligning sleeve bearings
- Continuous air over
- Class B insulation
- Standard operating temperatures: -40°F to + 104°F (-40°C to +40°C)
- UL listed, CSA approved and CE certified
- Rear mount: 3 tapped holes 8-36 @120 degree
- Foot mount: 4 holes, 146" (1.126" x 0.626")

Item ID	Watts	H.P.	Volts	RPM	Amps	Rotation	Protection
Elco							
EC4W115	4	1/185	115	1550	0.36	CCWSE	Impedence
EC4W230	4	1/185	230	1550	0.18	CCWSE	Impedence
EC5W115	5	1/500	115	1550	0.40	CCWSE	Thermal
EC5W230	5	1/500	230	1550	0.20	CCWSE	Thermal
EC6W115	6	1/125	115	1550	0.41	CCWSE	Impedence
EC6W230	6	1/125	230	1550	0.20	CCWSE	Impedence
EC9W115	9	1/83	115	1550	0.58	CCWSE	Thermal
EC9W230	9	1/83	230	1550	0.35	CCWSE	Thermal
EC16W115	16	1/47	115	1550	0.85	CCWSE	Thermal
EC16W230	16	1/47	230	1550	0.50	CCWSE	Thermal
EC34W115	34	1/20	115	1550	1.60	CCWSE	Thermal
EC34W230	34	1/20	230	1550	0.80	CCWSE	Thermal



Making it easier to be green.



Packard supplies product choices which offer energy efficient and environmentally conscious features. Pledging to make even one energy efficient change can help reduce our taxing impact on the planet's natural resources, making for a better world for future generations.

3.3 Inch Diameter Electronically Commutated Motors



Manufactured by



Features

- Commercial refrigeration walk-in coolers and freezers, air-moving applications demanding high efficiency and dependability
- Efficiencies up to three times higher than shaded pole motors and 40% higher than PSC
- Ball bearing with low temperature grease
- Standard thru-bolt configuration
- All angle mount
- Totally enclosed, air over
- Rotation viewed opposite shaft end (OSE)
- Water Slinger
- Automatic overload
- 50/60 Hertz
- Single phase
- Single speed

Item ID	H.P.	Volts	RPM	Amps	OSE Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Enclosure	Mounting	Replaces
Morrill Motors - Arctic 59 Model											
35100	1/15	115	1550	1.30	CW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front or Rear Thru-Bolt	Larkin 253-1194
35101	1/15	115	1550	1.30	CCW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front or Rear Thru-Bolt	Bohn 5008S
35103	1/15	115	1550	1.30	CW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front (Shat End) Only	GE 5SME59BLA1060
35102	1/15	115	1550	1.30	CCW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front (Shat End) Only	GE 5SME59BLA1058
35200	1/15	208-230	1550	0.80	CW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front or Rear Thru-Bolt	Larkin 253-1195
35201	1/15	208-230	1550	0.80	CCW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front or Rear Thru-Bolt	Bohn 5008T
35203	1/15	208-230	1550	0.80	CW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front (Shat End) Only	GE 5SME59BLA2061
35202	1/15	208-230	1550	0.80	CCW	5/16 x 4 1/8	2 5/8	Ball	Totally Enclosed	Front (Shat End) Only	GE 5SME59BLA2059

More Green! See page 27 for details



genteq™ Evergreen IM

48 frame blower retrofit uses up to 25% fewer watts in operating mode, and up to 74% fewer watts than a PSC motor in constant fan.



Century Comfort Select™ FB

Ultra quiet furnace blower motors with a peak efficiency reaching 82% in energy savings.



Drop In Replacements For Commercial Refrigeration Evaporator Fan Motors

MOTORS



Features

- Energy savings ECM design
- Ball bearings
- 60 Hertz
- 42 Frame
- Class B insulation
- Four mounting studs on each end
- Includes Lyall plug
- Replaces Heatcraft, Bohn, Chandler, Climate Control and Larkin
- Replaces 1/15, 1/20, 1/25 HP PSC and lower efficient shaded pole designs

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Mounting	Replaces
Packard											
97801	1/15, 1/20, 1/25	120	1625	1.20	1	CWSE	5/16 x 2.95	2.85	Ball	Stud	Heatcraft 22617801 Heatcraft 22618001 Heatcraft 25307801 Heatcraft 25308001
97701	1/15, 1/20, 1/25	230	1625	0.70	1	CWSE	5/16 x 2.95	2.85	Ball	Stud	Heatcraft 22617701 Heatcraft 22617901 Heatcraft 25307701 Heatcraft 25307901

High Efficient Motors - ECM-IP Series



ECHE0147
ECHE0176
ECHE0182



ECHE0170

Features

- Electronically commutated - 115V, 50/60Hz
- Moisture protection: IP65
- Front mount: M4 studs on 3.72" B.C. for shroud / guard
- Drop-in replacement for front mount shaded pole / ECM
- CCW rotation from the shaft end
- All angle mount
- Totally enclosed
- Continuous air over
- Long-life sealed ball bearings

Item ID	Watts	Volts	RPM	Amps	Rotation	Length Less Shaft (In.)	Cord Length (In.)	Terminal / Plug	Replaces
Elco									
ECHE0147	12	115	1450	0.18	CCWSE	3.61	14	3 pin 90°	EDA12153UC0147 34410013 34410009 24681010
ECHE0170	12	115	1450	0.18	CCWSE	3.62	14	3 pin 90°	EDA12153UN0170 34410012 (For Fan 34415010)
ECHE0176	15	115	1600	0.22	CCWSE	4.00	16	2 pin 90°	EDA15253UC0176 P078449H
ECHE0182	10	115	1550	0.19	CCWSE	3.61	16	2 pin 90°	EDA10153UC0182 P079441C P066237A



Solid State Commutated Unit Bearing Motors



10012
10013
10020
10022
20020
20022



10035
10036
10040



10042



10050
10052

Features

- Direct drop-in replacements
- Ultimate commutated technology
- Unit bearing construction
- 100% performance tested
- Includes Lyall plug
- Rotation is determined by viewing opposite shaft end
- Peak efficiencies in excess of 80% means lower operating temperatures and extended motor life
- Constant 1550 RPM operating speed is identical on either 50 or 60 Hertz
- Constant 1550 RPM regardless of fluctuations in voltage

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Hertz	Notes
Morrill Motors								
10012	6-12	115	1550	0.30	CW	1/4 Threaded	60	554
10013	6-12	115	1550	0.30	CCW	1/4 Threaded	60	554
10020	16-25	115	1575	0.60	CW	1/4 Threaded	60	554
10022	16-25	115	1575	0.60	CCW	1/4 Threaded	60	554
20020	16-25	208-230	1575	0.30	CW	1/4 Threaded	60	554
20022	16-25	208-230	1575	0.30	CCW	1/4 Threaded	60	554
10035	35-50	115	1550	0.90	CW	1/4 Threaded	50/60	
10036	35-50	208-230	1550	0.45	CW	1/4 Threaded	50/60	
10040	35-50	115	1550	0.90	CCW	1/4 Threaded	50/60	
10042	35-50	208-230	1550	0.45	CCW	1/4 Threaded	50/60	
10050	35-50	115	1550	0.90	CW	3/8 x 1 7/8	50/60	
10052	35-50	208-230	1550	0.45	CW	3/8 x 1 7/8	50/60	

Notes:

554. Includes water shield to protect motor during coil cleaning



10112
10113
10116
10215



10118



10218
10219



10312



10313

Item ID	Watts	Volts	RPM	Amps	Rotation	Plug	Hertz	Foot Pads	Material	Replaces
Morrill Motors										
10112	12	115	1550	0.30	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	12CSHEMA1
10312	12	230	1550	0.30	CWLE	90 Degree 2 Prong Plug	50/60	Double	Aluminum	12CSHBV2
10313	12	115	1550	0.30	CWLE	90 Degree 2 Prong Plug	50/60	Double	Aluminum	12CSHEMV1
10113	13	115	1550	0.40	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	13CSHEMA1
10215	15	230	1550	0.15	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	15CSHEMA2
10116	16	115	1550	0.60	CWLE	Straight 2 Prong Plug	50/60	Double	Aluminum	16SCHEMA1
10118	18	115	1550	0.90	CCWLE	1/4 Male Quick Connect	50/60	Double	Cast Iron	18AHEMAR1
10218	18	115	1550	0.90	CCWLE	Straight 2 Prong Plug	50/60	Double	Cast Iron	18AHEMAR1
10219	19	208-230	1550	0.45	CCWLE	Straight 2 Prong Plug	50/60	Double	Cast Iron	19AHMAR2

MOTORS



Cast Iron



Aluminum



65133

Features

- Rotation is determined by viewing the lead end
- Totally enclosed
- 50/60 Hertz



Cast Iron Unit Bearing Motors

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Replaces	Notes
Packard												
61002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads		
61021	2	115	1550	0.22	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	No Foot Pad		
65111	2.5	115	1000	0.26	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5111	
61004	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads		
65211	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5211	
65212	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5212	
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Hill PP7577M	87
65018	5	115	1550	0.34	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Single Foot Pad	GE 5KSM81FFL18	550 551
61006	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads		
65311	6	115	1550	0.40	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5311	
65312	6	115	1550	0.40	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5312	
65411	9	115	1550	0.55	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5411	
65412	9	115	1550	0.55	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5412	
65421	9	230	1550	0.27	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5421	
65422	9	230	1550	0.27	CCW	1/4 x 1/2	2 3/4	Totally Enclosed	50/60	Single Foot Pad	GE 5422	
61029	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		
65017	9	115	1550	0.55	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Single Foot Pad	GE 5KSM81FFL17	550 551
61009	9	115	1550	0.55	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		
61099	9	115	1550	0.55	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		
65133	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Single Foot Pad	GE 5KSM51ECG5133 Hussmann 58698	87
61059	9	230	1550	0.29	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		
61015	16	115	1550	1.00	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads		
61016	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads		
61017	16	230	1550	0.50	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads		
61018	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads		
65811	16	115	1550	1.00	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5811	
65812	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5812	
65821	16	230	1550	0.50	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5821	
65822	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5822	

Aluminum Unit Bearing Motors

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Mounting	Replaces	Notes
Packard												
64102	2	115	1550	0.25	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 102	
65109	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	No Foot Pad	GE 5109	530
64115	4	115	1450	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 115	
64103	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 103	
65213	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5213	
65214	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5214	
64022	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	No Foot Pad	Emerson 119	87
65313	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5313	
64117	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads	Emerson 117	
64277	6	277	1550	0.17	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads		557
65413	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Single Foot Pad	GE 5413	
64108	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	Emerson 108	
64110	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads	Emerson 110	
64112	16	115	1550	1.40	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads	Emerson 112	

Notes:

87. Includes straight Lyall plug
530. No foot pad

550. Includes 90 degree Lyall plug
551. Low temp. oil

557. 5 mounting holes opposite the shaft end



Features

- Rotation is determined by viewing the lead end
- Totally enclosed
- 60 Hertz



MOTORS

Cast Iron Unit Bearing Motors

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
Morrill Motors											
10002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB2EM1	
10004	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB4EM1 GE 5211	
10044	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB4EMR1	
10024	4	230	1550	0.14	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB4EM2 GE 5221	
10054	4	230	1550	0.14	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB4EMR2 GE 5222	
10005	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB5EM1	
10287	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors PB5SEV11 Hill PP7577M	
10026	5	115	1550	0.15	CW	1/4 x 1/2	2 3/8	PSC	No Foot Pad	Hill PO39537FM0	94 530 531
10006	6	115	1550	0.36	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB6EM1 GE 5311	
10066	6	115	1550	0.36	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB6EMR1	
10009	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9EM1 GE 5411	
10099	9	115	1550	0.53	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9EMR1	
10029	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9EM2 GE 5421	
10059	9	230	1550	0.27	CCW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9EMR2 GE 5422	
10025	9	115	1550	0.23	CW	1/4 x 1/2	2 1/2	PSC	No Foot Pad	Hill PO41662HMO	95 530 531
10015	16	115	1550	0.80	CW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill Motors SPBEP16EM1 GE 5811	
10017	16	115	1550	0.80	CCW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill Motors SPBEP16EMR1 GE 5812	
10016	16	230	1550	0.40	CW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill Motors SPBEP16EM2 GE 5821	
10018	16	230	1550	0.40	CCW	1/4 x 1/2	3 1/32	SP	Double Foot Pads	Morrill Motors SPBEP16EMR2 GE 5822	

Aluminum Unit Bearing Motors

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Mounting	Replaces	Notes
Morrill Motors											
13002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB2HUEM1	
13004	4	115	1550	0.40	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB4HUEM1	
13005	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB5HUEM1	
13055	5	115	1550	0.34	CCW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB5HUEMR2	
13006	6	115	1550	0.50	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB6HUEM1	
10101	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	No Foot Pad	Hussmann SPB9HUBGV101	87 530
13009	9	115	1550	0.58	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9HUEM1	
13029	9	230	1550	0.29	CW	1/4 x 1/2	2 1/2	SP	Double Foot Pads	Morrill Motors SPB9HUEM2	
13014	14	115	1550	0.66	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB14HUEM1	
13124	14	230	1550	0.33	CW	1/4 x 1/2	2 3/8	SP	Double Foot Pads	Morrill Motors SPB14HUEM2	

Notes:

87. Includes LYALL Plug
94. Capacitor furnished

95. PSC Motor With Cap Included and Has 4 Drilled and Tapped Holes for Hill Refr Mounting

530. No Foot Pad
531. Rear hole mounting only

Electric Motors And Specialties Unit Bearing Motors - 35-75 Watts

MOTORS



15020
15021
15022
15023



15040
15041
15049
15460
15075



15045

Features

- Double foot pad mounting
- Mounting hardware included
- Rotation is determined by viewing the lead end
- UL and CSA approved
- Cast iron
- Shaded pole

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Hertz	Replaces	Notes
Electric Motor and Specialties											
15020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Tecumseh 810M035A29 EMS ESPL35EM1	479
15022	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	EMS ESPL35EMR1	
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Totally Enclosed	60	Tecumseh 810M035A21 Tecumseh 810M035A28 EMS ESPL35EM2	479
15023	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	60	EMS ESPL35EMR2	
15040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	60	Copeland 050-0244-01 EMS ESPOL50EM1	96
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	60	Copeland 050-0244-00 EMS ESPOL50EM2	96
15045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	Open	60	Tecumseh 810M050A62 EMS ESPOL50EMJR21	479
15049	50	208-230	1500	0.85	CW	3/8 x 1 1/2	3 3/4	Semi Enclosed	50/60	Copeland 050-0244-00 EMS ESPOL50EM26	96 97
15460	50	460	1500	0.44	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	60	Copeland 050-0244-02 EMS ESPOL50EM461	96
15075	75	230	1500	1.50	CW	3/8 x 1 1/2	3 5/8	Open	60	EMS ESPOL75EM2	97

Notes: 96. Copeland replacement 97. May be used on 208 Volt applications 479. Tecumseh replacement

Packard Unit Bearing Motors - 25-50 Watts



65001 65020
65002 65021
65003 65022
65004 65023



65040
65041
65042
65043



65045

Features

- Double foot pad mounting
- 50/60 Hertz
- Cast iron
- Rotation is determined by viewing the lead end



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Enclosure	Replaces
Packard									
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL25EM1 GE 3251
65003	25	115	1500	1.10	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL25EMR1 GE 3252
65002	25	230	1500	0.55	CW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL25EM2 GE 3253
65004	25	230	1500	0.55	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL25EMR2 GE 3254
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL35EM1 GE 3351
65022	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL35EMR1 GE 3352
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL35EM2 GE 3353
65023	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	EMS ESPL35EMR2 GE 3354
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	EMS EPOL50EM1 GE 3501
65042	50	115	1500	1.70	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	EMS EPOL50EMR1 GE 3502
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	EMS ESPOL50EM2 GE 3503
65043	50	230	1500	0.85	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	EMS ESPOL50EMR2 GE 3504
65045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	Open	EMS ESPOL50EMJR21 GE 3507

Direct Replacements For Oasis And Hussmann



10037
10038
61104



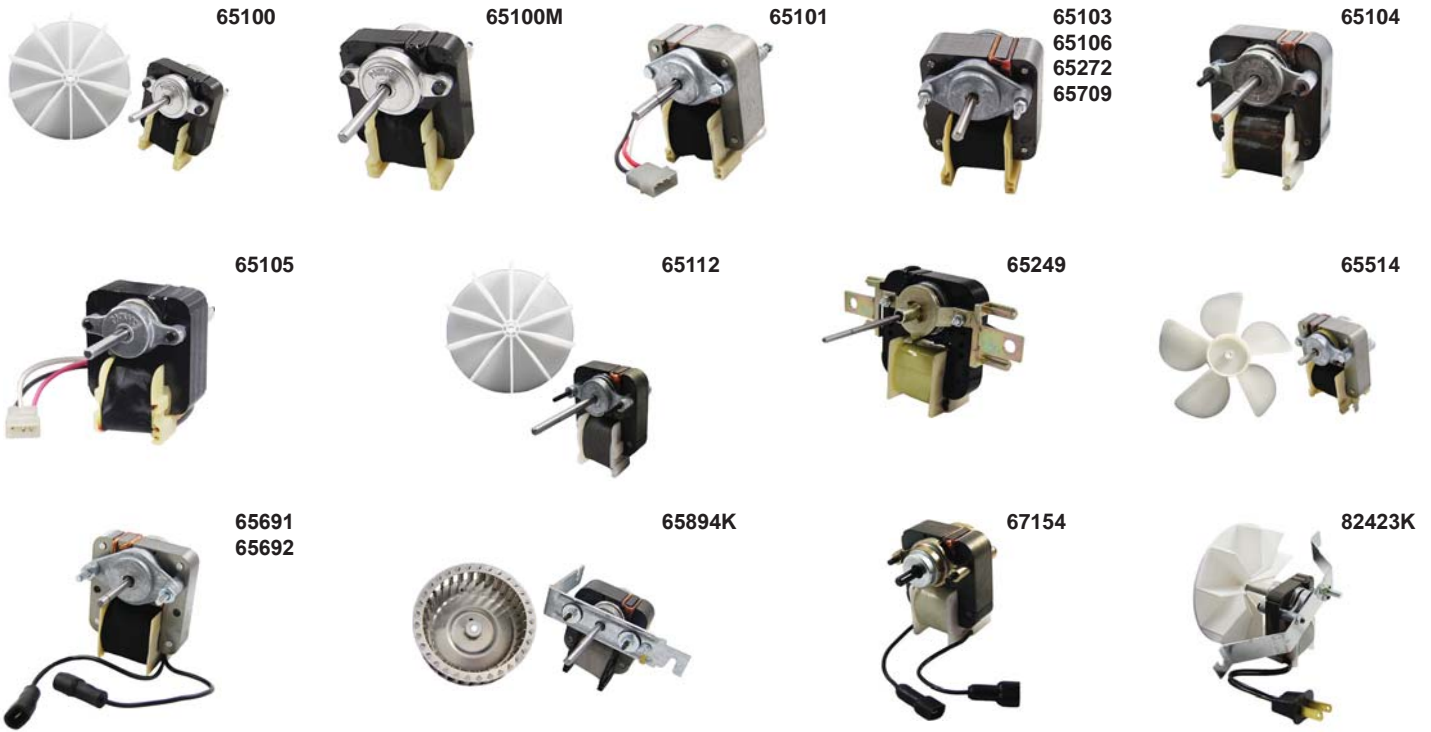
61103

Features

- Totally enclosed
- Shaded Pole
- Aluminum
- 10037 & 10038 have flat end frame on lead end.
- 61103 is furnished with a neoprene silencer, speed nut and mounting screws. Low temperature oil. 5 mounting holes on rear.

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Hertz	Mounting	Replaces
Packard & Morrill Motors										
10037	5	115	1550	0.34	CWLE	1/4 x 1/2	2 3/8	60	Double Foot Pads	Oasis 027354-026 Oasis 027354-037
10038	9	115	1550	0.53	CWLE	1/4 x 1/2	2 1/2	60	Double Foot Pads	Oasis 027354-038
61103	12	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	50/60	No Foot Pad	Hussmann 0047000 Hussmann 441-103 Hussmann 0440421 Hussmann 125-01-0615A LRC Coil 1602
NEW 61104	12	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	50/60	Double Foot Pads	Hussmann 44103111 Trane MOT13205

C-Frame Motors



Features

- Shaded pole
- Sleeve bearings
- Stud mounting
- Rotation is determined by viewing the shaft end

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
Packard										
65100	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Gemline EM550 Nutone C65878 Robertshaw VFM100	105
65100M	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Nutone C658878 Motor Only	464
65112	1/2	120	3000	0.76	1	CCW	7/32 x 1 3/4	60		104 105
82423K	1/2	120	3000	0.60	1	CW	7/32 x 1 1/2	60	Nutone 89423-000	106
65249	1/2	120	3000	0.45	1	CW	1/8 x 2 1/2	60	Gemline EM241 Gemline EM242 Gemline EM244 Gemline EM245 Gemline EM247 Gemline EM248 Gemline EM249	
65106	5/8	115	3000	0.70	1	CCW	7/32 x 2 3/8	60	Gemline EM555 Nutone C68627	485
65514	5/8	120	3000	0.44	1	CW	3/16 x 3/4	60	Delfield 1175-10-4439	
65691	5/8	120	3000	0.64	1	CW	7/32 x 1 3/8	60	BOHN 5007S Bohn 5018S Bohn 5036F Gemline EM691 UPPCO 85	354 472 474
65692	5/8	240	3000	0.32	1	CW	0.181 x 1 3/8	60	BOHN 5007T Bohn 5018T Bohn 5036G Gemline EM692 UPPCO 86	354 472 474
65709	5/8	120	3000	0.88	1	CCW	7/32 x 2 3/8	60	Nutone C53709	108 485
67154	3/4	120	3000	0.55	1	CCW	1/4 x 5/8	60	Russell Coil 102249-005	
65894K	3/4	120	3000	0.90	1	CCW	7/32 x 2 3/8	60	Nutone 82229 Nutone K5894	106
65104	3/4	120	3000	0.74	1	CCW	7/32 x 1 3/4	60	Gemline EM553 Nutone C66582	107
65105	7/8	120	3000	0.88	2	CCW	7/32 x 1 7/16	60	Gemline EM554 Nutone C27987	110
65101	7/8	120	3000	0.86	2	CW	7/32 x 1 5/16	60	Gemline EM551 Nutone C52367 Robertshaw VFM101	110
65103	7/8	120	3000	0.71	1	CCW	7/32 x 1 1/4	60	Gemline EM552 Nutone C63675	485
65272	1	120	3000	1.00	1	CCW	7/32 x 1 1/2	60	Nutone C23272	485

Notes:

104. Same as 65100 except mounting screws are on the shaft end
 105. Includes A65100FB impeller
 106. Assembled with bracket as illustrated
 108. Has a one shot overload

110. Includes two speed plug
 354. Impedence protected
 464. Same as 65100 except motor only
 472. Includes stand offs for other Bohn applications

474. Used in Bohn commercial evaporators
 485. Includes two prong plug

C-Frame Utility Fan Motors And Kits



Applications

- Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

Features

- Shaded pole
- 60 Hertz
- Open enclosure
- Mechanically reversible
- Rotation is determined by viewing the shaft end

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Replaces	Notes
Packard - Sleeve Bearings											
65670	5/8	115	3000	0.50	1	CW	3/16 x 1 5/16	SP	Sleeve	Acme 600 Acme 700 Acme 710 Gemline EM670 Robertshaw 14001	
65690	5/8	120	3000	0.50	1	CW	3/16 x 1 1/2	SP	Sleeve	Gemline EM690	98
65672	5/8	240	3000	0.18	1	CW	3/16 x 1 5/16	SP	Sleeve	Acme 602 Acme 702 Gemline EM672 Robertshaw 14005	
65673	5/8	115	3000/1550	0.60/0.40	2	CW	3/16 x 1 3/8	SP	Sleeve	Gemline EM673 Robertshaw 14007	
65675	1	120/240	3000	0.80/0.40	1	CW	3/16 x 2 3/8	SP	Sleeve	Acme 7502 Gemline EM675	
Packard - Ball Bearings											
65686	5/8	120	3000	0.41	1	CW	3/16 x 1 1/4	SP	Ball	Acme BB700 Gemline EM686	
65687	1 1/8	120/240	3000	0.64/0.32	1	CW	3/16 x 2 3/8	SP	Ball	Acme BB7502 Gemline EM687	
65688	1 1/8	120	3000	0.43	1	CW	3/16 x 1 5/8	SP	Ball	Acme BB750 Gemline EM688	

Notes:
98. Same as 65670 except studs exit on the shaft end. Includes 5.5" fan blade only

Direct C-Frame Replacements For Broan



Features

- Shaded Pole
- Sleeve Bearing
- Automatic Overload
- Rotation is determined by viewing the shaft end

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Replaces	Notes
Packard										
65366	5/8	120	3000	0.50	2	CCW	3/16 x 1 1/4	60	Broan 99080365	
65216	5/8	120	3000	0.51	1	CCW	0.181 x 1 1/2	60	Broan 99080090 Broan 99080216	
65094	7/8	120	3000	1.40	1	CCW	7/32 x 1 3/8	60	Broan 99080094 Broan 99080099 Broan 99080166	
65159	7/8	120	3000	0.71	1	CCW	1/4 x 2 3/4	60	Broan 99080159	491
65176	1 1/8	120	3000	1.00	1	CW	7/32 x 1 1/2	60	Broan 99080176	

Notes:
491. Has a flattened shaft

C-Frame Utility Fan Motors



Applications

Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

Features

- Open enclosure
- 60 Hertz
- Mechanically reversible
- Rotation is determined by viewing the shaft end

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Replaces	Notes
Packard											
65210	3/8	120	3000	0.31	1	CW	0.181 x 1	SP	Sleeve		
65426	3/8	240	3000	0.17	1	CW	0.181 x 1	SP	Sleeve		
65455	1/2	120	3000	0.35	1	CW	7/32 x 1	SP	Sleeve	Kitchen Aid 240332-1 Kitchen Aid 4162472	
65533	1/2	120	3000	0.22	1	CW	Splined (3/16 Diameter)	SP	Sleeve	Choice Vending 863243	
65678	1/2	120	3000	0.55	1	CW	3/16 x 1 1/2	SP	Sleeve	Gemline EM678 Robertshaw 14015	
65693	1/2	120	3000	0.32	1	CW	0.181 x 1	SP	Sleeve		
65280	1/2	240	3000	0.32	1	CW	3/16 x 1	SP	Sleeve		
65671	5/8	115	3000	0.50	1	CW	3/16 x 1 1/4	SP	Sleeve	Gemline EM671 Robertshaw 14003	
65681	5/8	120	3000/1550	0.55/0.34	2	CW	3/16 x 1 3/8	SP	Sleeve	Gemline EM681 Robertshaw 14021	
65102	5/8	120	3000	0.40	1	CW	7/32 x 2 3/16	SP	Sleeve		
65694	5/8	120	3000	0.45	1	CW	0.181 x 1	SP	Sleeve		
65467	7/8	120	3000/1550	1.00/0.60	2	CW	7/32 x 2 3/8	SP	Sleeve		103
65427	7/8	220-240	3000	0.37	1	CW	3/16 x 1	SP	Sleeve		
65283	7/8	120	3000/1550	0.76	2	CW	3/16 x 1	SP	Sleeve		
65685	1	120	3000/1550	0.81	2	CW	3/16 x 1 5/8	SP	Sleeve	GE WB26X45 Gemline EM685	
65682	1	120	3000/1500	0.60/0.36	2	CW	3/16 x 1 1/2	SP	Sleeve	Gemline EM682	
65683	1	240	3000	0.25	1	CW	3/16 x 1 1/4	SP	Sleeve	Gemline EM683	
65680	1 1/8	120	3000	0.90	1	CW	3/16 x 1 1/2	SP	Sleeve	Acme 750 Gemline EM680 Robertshaw 14019	
65468	1 3/8	120	3000/1550	1.25	2	CW	7/32 x 2 3/8	SP	Sleeve		
65428	1 1/2	220-240	3000	0.55	1	CW	1/4 x 1	SP	Sleeve		

Notes:

103. 2 speed plug for Nutone applications



Features

- 60 Hertz
- Mechanically reversible
- Rotation is determined by viewing the shaft end
- Has extended studs at 1 7/8" center, two 5/32" mounting holes on each side of stack on 1 7/8" center and includes two prong plug

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Enclosure
Packard										
60100	5/8	115	2750	0.71	1	CW	3/16 x 1 1/8	SP	Sleeve	Open

Plastic Fan Blades



Item ID	Diameter (In.)	Number of Blades	Rotation	Bore (In.)	Replaces Notes
Packard					
A61299	2 1/2	4	CW	3/16	
A61300	3	4	CW	1/8	
A61301	3	4	CW	3/16	
A61302	3 1/2	4	CCW	3/16	
A61353	4	4	CCW	Hub	
A61406	4	4	CW	1/8	
A61408	4	4	CW	3/16	
A61550	5 1/2	4	CCW	3/16	
A61551	5 1/2	4	CW	3/16	
A61602	6	4	CW	1/4	
A61603	6	4	CW	5/16	
A61604	6	4	CCW	3/16	
A61605	6	4	CCW	1/4	
A61606	6	4	CCW	5/16	
A61401	4	5	CW	1/8	
A61402	4	5	CW	3/16	
A61403	4	5	CCW	1/8	
A61404	4	5	CCW	3/16	
A61501	5	5	CW	3/16	
A61502	5	5	CW	1/4	
A61503	5	5	CW	5/16	
A61504	5	5	CCW	3/16	
A61505	5	5	CCW	1/4	
A61506	5	5	CCW	5/16	
A61455	5 9/16	5	CCW	3/16	
A61650	6 1/2	5	CW	3/16	
A61651	6 1/2	5	CW	1/4	
A61652	6 1/2	5	CW	5/16	
A61660	6 5/8	5	CW	7/32	D-STYLE BORE
A61665	6 5/8	5	CW	7/32	D-STYLE BORE
A61701	7	5	CW	1/4	
A61703	7	5	CCW	1/4	
A61718	7	5	CW	Hub	Gemline FB718
A61801	8	5	CW	1/4	
A61802	8	5	CW	5/16	
A61601	6	6	CW	3/16	

For full line of fan blade products, see page 112-123

Plastic Blower Wheels And Impellers



A65900



A65100FB
A65216FB
A64031FB

Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
Packard					
A65900	1/4	5 3/4	2	D	Nutone 59000A000
A65100FB	7/32	4 9/16	—	D Shape	Nutone 68920
A65216FB	3/16	4 1/2	—	D Shape	
A64031FB	0.181	4 1/2	—	Round	

Direct Replacement Water Heater Draft Inducers

MOTORS



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
American Water Heater Replacement										
W1	1/25	115	3210	1.90	1	CW	SP	Sleeve	OFC	American Water Heater 3000288
AO Smith Replacements										
W2	1/14	115	3275	2.30	1	CW	SP	Ball	Open	AO Smith 183505-000
W4	1/20	115	3400	1.80	1	CCW	SP	Sleeve	Open	AO Smith 183381-000
Bradford White Replacements										
W3	1/17	115	3000	1.80	1	CCW	SP	Sleeve	Open	Bradford White 117524-00 Bradford White 239-39785-00
W5	1/14	115	3275	2.50	1	CW	SP	Ball	Open	Bradford White 239-42133-00B
W6	1/15	115	3000	2.20	1	CCW	SP	Sleeve	Open	Bradford White 239-40614-00C
GSW Replacements										
W7	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	GSW 63217
W8	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	GSW 63172
State Ind. Replacements										
W9	1/60	115	3000	0.95	1	CW	SP	Sleeve	OFC	State Ind. 0012400500
W10	1/20	115	3400	1.80	1	CCW	SP	Sleeve	OFC	State Ind. 0012400540

OEMs, meet your match.

This season, Packard is your source for OEM direct replacement motors for Carrier, Copeland, Goodman, Rheem & Trane.

OEM Direct Replacements begin on page 54.

Square Flange Pool Pump Motors



Features

- Used on many Sta-Rite, Red Jacket, Pac Fab, American Products and Sears jet and pool pumps
- High and low service factors
- Open drip proof enclosure
- Sealed ball bearings
- CCW pump end rotation
- 303 Stainless steel threaded shaft
- 50°C ambient
- Square flange mounting
- Capacitor start
- 3450 RPM
- Automatic overload
- 60 Hertz
- Single speed
- Single phase

Item ID	H.P.	Volts	Max Amps	Service Factor	Frame	Notes
Century Square Flange/High Service Factor (Full Rated)						
SQ1032	1/3	115/230	9.90/5.00	1.95	48Y	
SQ1052	1/2	115/230	13.40/6.70	1.90	48Y	
QC1052	1/2	115/230	9.60/4.80	1.90	48Y	199
SQ1072	3/4	115/230	15.30/7.60	1.65	48Y	
QC1072	3/4	115/230	12.60/6.30	1.65	48Y	199
SQ1102	1	115/230	19.20/9.60	1.65	48Y	
QC1102	1	115/208-230	16.00/8.00	1.65	48Y	199
SQ1152	1 1/2	230	10.40	1.47	48Y	199
SQ1202	2	230	11.20	1.30	48Y	199
SQ1302V1	3	230	15.40	1.15	56Y	199
Square Flange / Low Service Factor (Up-Rated)						
USQ1052	1/2	115/230	9.90/5.00	1.30	48Y	
USQ1072	3/4	115/230	13.40/6.70	1.27	48Y	
USQE1072	3/4	115/230	11.80/5.90	1.27	48Y	452
UQC1072	3/4	115/230	9.60/4.80	1.27	48Y	199
USQ1102	1	115/230	15.30/7.60	1.25	48Y	
UQC1102	1	115/230	12.60/6.30	1.25	48Y	199
USQE1102	1	115/230	14.80/7.40	1.25	48Y	452
USQ1152	1 1/2	115/230	19.20/9.60	1.10	48Y	
USQE1152	1 1/2	115/230	19.20/9.60	1.10	48Y	452
UQC1152	1 1/2	115/230	16.00/8.00	1.10	48Y	199
USQ1202	2	230	10.40	1.10	48Y	199
USQ1252	2 1/2	230	11.20	1.00	48Y	199

Notes:

199. \$ Energy efficient capacitor start, capacitor run Conservationist motor
452. eMod equipped motor

NEMA C Face Pool Pump Motors

Total output (HP x service factor) of replacement motor must equal or exceed motor being replaced



Features

- Sealed ball bearings
- Sealed switch design
- 50°C ambient
- 3450 RPM
- Not reversible
- Capacitor start and capacitor start-capacitor run
- NEMA "56C" face mount
- 303 Stainless shaft (56J (threaded shaft) and 56C (keyed shaft))
- 304 Ball bearing on shaft end
- High service factor (full rated)
- Standard efficiency and high efficiency design (conservationist)
- Open drip proof enclosure
- Automatic overload
- CCWPE rotation
- "1081" Design
- 60 Hertz
- Single speed
- Single phase

Item ID	H.P.	Volts	Max Amps	Service Factor	Frame	Notes
Century NEMA C Face Pool Filter Motors						
SK1052	1/2	115/230	10.60/5.30	1.60	56C	
CK1052	1/2	115/230	8.00/4.00	1.60	56C	199
ST1052	1/2	115/230	11.00/5.50	1.60	56J	
CT1052	1/2	115/230	8.00/4.00	1.60	56J	199
SK1072	3/4	115/230	14.60/7.30	1.50	56C	
CK1072	3/4	115/230	11.00/5.50	1.50	56C	199
ST1072	3/4	115/230	15.00/7.50	1.50	56J	
CT1072	3/4	115/230	11.00/5.50	1.50	56J	199
SK1102	1	115/230	17.00/8.50	1.50	56C	
CK1102	1	115/230	13.60/6.80	1.40	56C	199
ST1102	1	115/230	18.60/9.30	1.50	56J	
STE1102	1	115/230	18.60/9.30	1.50	56J	452
CT1102	1	115/230	13.60/6.80	1.40	56J	199
SK1152	1 1/2	115/230	19.40/9.70	1.30	56C	199
ST1152	1 1/2	115/208-230	19.60/10.40-9.80	1.50	56J	199
SK1202	2	230	11.20	1.30	56C	199
ST1202	2	208-230	12.60-11.40	1.30	56J	199
ST1302V1	3	208-230	14.50-13.80	1.15	56J	199

Notes:

199. \$ Energy efficient capacitor start, capacitor run Conservationist motor
452. eMod equipped motor

Starter Motors Direct Replacement For Outdoor Power Equipment



Item ID	# of Volts	# of Teeth	Mounting Hole (In.)	# of Mounting Holes	Replaces Engine Model Series	Direct Replacement For
Direct Replacements For Briggs and Stratton Single Cylinder						
S33700	12	16	2 5/16	2	19G400-19G499, 191707, 252707, 254422, 254427, 394805, 392749, 497595, 254700-254799, 280700-289799, 28A707, 28B702, 28B707, 28M707. Fits most single cylinder Briggs & Stratton models	396306, 391178, 394807
S33719	12	16	3 7/8	2	243400, 326400 series	497401, 494990, 490920, 490420, 394943, 399169, 491104, 499521
S33708	12	16	2 5/16	2	254422, 254427, 254700-254799, 280700-289799, 28A707, 28B702, 28B707 and 28M707	693351, 693552
S33772	12	14	2 5/16	2	212707, 212907, 214707, 214907, 215707, 215807, 215907, 216907, 217707, 217807, 217907, 219702, 219707, 219807, 219907, 21A707, 21A807, 21A902, 21A907, 21A972, 21A977, 21B707, 21B807, 21B902, 21B907, 21B972, 21B977, 280H07, 280J07, 281H07, 282H07, 283702, 283707, 283H07, 284702, 284707	
Direct Replacements For Briggs and Stratton Twin Cylinder						
S33701	12	16	2 1/2	2	422700-422799, 42A700-42A799 and most 14, 16 and 18 HP engines. Fits most twin cylinder Briggs & Stratton models	497596, 394808
S33709	12	16	2 1/2	2	422700-422799, 42A7010-42A799 and most twin cylinder engines for 18 through 20.5 HP twin cylinder engines only	498148, 495100, 399928
S33740	12	15	2 5/16	2	29CID OHV, Steel pinion gear for steel ring gears (Not for use on engines with Aluminum flywheel ring gear) 294700 series, 350000-380000 series	691564, 808106
Direct Replacements For Honda Single Cylinder						
S33741	12	17	1 15/16	2	Fits 5.5 HP GX160 series engines	31210-ZE1-023
S33735	12	14	3 1/4	4	Fits Models GX340QAE2, GX340ZNE2 and GX340VXE2	31210-ZE3-013 Code # 2450740
Direct Replacements For Honda Twin Cylinder						
S33734	12	12	2 5/8	2	Fits 24HP GX670, GX620 and GX610 series engines	31200-ZJ1-841, 32100-ZJ1-842, 228000-7850
S33733	12	12	2 5/8	2	Fits 24HP GXV670, GXV620 and GXV610 series engines	31200-ZJ4-831, 228000-7860, DDWD9
Direct Replacement For Kawasaki Single Cylinder						
S33728	12	9	3 7/8	2	Fits models FC401V, FC400V and FC420V	Kawasaki 21163-2073, 21163-2073A, John Deere AM104559, Kubota 12498-63010
Direct Replacements For Kawasaki Twin Cylinder						
S33729	12	9	4 5/16	2	Fits Models 5F501F, FD620D, FC661D, FD501D and FD661D	Kawasaki 21163-210, John Deere AM109408
S33730	12	10	2 11/16	2	Fits Models FH451V, FH500V, FH531V, FH541V, FH580V, FH601D, FH610V, FH641D, FH641V, FH680D, FH680V, FH721D and FH721V	Kawasaki 21163-7010, 21163-7001, 21163-7022, 21163-2101, John Deere AM109408
Direct Replacement For Kohler Single and Twin Cylinder						
S33714	12	10	2 11/16	2	CH12.5, 13, 14, 15, 18, 20, 22, 25, CV12.5, 15S, 16, 18, 20, 22, 25	12-098-03, 12-098-03S, 24-098-01, 24-098-01S, 25-098-09S, 25-098-11S, 25-098-11
Direct Replacements For Kohler Single Cylinder						
S33722	12	10	2 11/16	2	CV12.5, 13, 15, 16. Command vertical engines	12-098-10, 25-098-04, 25-098-04S, 25-098-07
S33710	12	13	2 11/16	2	Fits Models CH11, 12.5, 13, 14, 15, CV15 Use after serial number 241200004	12-098-12, 12-098-12S, 12-098-19, 12-098-19S, 12-098-21S, 12-098-14S
S33715	12	13	2 11/16	2	CH14, CV11, 12.5, 13, 14, 15, 16	12-098-20, 12-098-20S, 12-098-13, 12-098-13S, 12-098-15S, 12-098-22S
S33702	12	10	2 1/2	Stud Mounted	Fits Models M10, M14 & M16 series engines, 10, 14 and 16 HP engines	41-098-04, 41-098-06, 41-098-06S
S33704	12	10	2 5/8	2	K321, K341, K241, K301 series engines. 14 & 16 single cylinder engines.	Kohler 257534, 45-098-05, 45-098-07, 45-098-09, 45-098-09S, John Deere AM3424B, AMJ7869
Direct Replacements For Kohler Twin Cylinder						
S33718	12	9	2 1/2	Stud Mounted	K17, 19, 21, M18, 20, MV20,	52-098-06, 52-098-13, 52-098-13S
S33707	12	9	2 1/2	Stud Mounted	MV16, MV18, 16& 18HP twin cylinder	52-098-12, 52-098-03, 52-098-09
Direct Replacements For Tecumseh Single Cylinder						
S33716	12	11	2 7/8	3	HH80, HH100, HH120, OH120, OH140, HH150, OH160,	33835, 32917, 32510
S33712	12	16	2 1/4	4	Fits models HM70, HM80, HM100, SK90, HMSK100, OHM90, OHM110, OHM120, OHSK90, OHSK100, OHSK110, OHSK120, OHSK130, OHV12, OHV12S, OHV13, TVM195, TVM220, TVXL220, OHH50, TVXL120-170	36680, 36463, 35763A
S33711	12	10	3 7/8	2	L, LEV, OHV135, OHV14, OHV145, OHV15, OHV150, OHV155, OHV16, OHV160, OHV165, OHV17, OHV170, OHV175, OV490	36795, 36264
S33713	12	10	3 3/8	2	Fits models OH50, OHH50, OHV110, OHV120, OHV125, OHV130, OHV135, OV358. When used to replace 4 bolt mount starter, 2 new screws required. (Included)	37425, 36914, 730326
S33736	120	9	2 1/8	3	Fits snow king engines 30-35, HS 40-50, HSK30-40, 33290E HSSK40-50, OHH50-60, OHSK50-70, HSK50-70	
S33737	120	16	2 1/4	4	Fits snow king engines TVM125-140, V70, HSS0-70, HSK50-70 engines. Not CSA approved.	33328E
S33738	120	16	2 1/4	4	Fits snow king engines TVM, TVXL, HMSK, and OHSK engines. Not CSA approved.	33329E



65334



65337



82694K



G2243
G2246



OAN010



OAN140



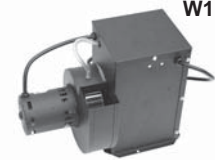
OAN460



OAN470



OAN747



W1

Aaon

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Bearings	Dia. (In.)	ENCL.	Mounting	Capacitor	Replaces
Century													
OAN470	1/4	460/380-415	3200	0.90	CCWLE	1/2 x 3 1/4	5.49	Ball	5 5/8	Open	Horizontal	5M/370V	P48470 FS48S08A27
OAN010	1/3	460	1100	1.00	CCWLE	1/2 x 3 1/4	4.74	Ball	5 5/8	Semi	Vertical Shaft Up	7.5M/370V	P63010 F48A11A27C
OAN460	3/4	208-230	1075	5.40	CCWLE	1/2 x 3	7.36	Ball	5 5/8	Semi	Vertical Shaft Up	15M/370V	P85460 F48K44A27C
OAN747	3/4	460	1075	2.00	CCWLE	1/2 x 3 1/4	7.11	Ball	5 5/8	Semi	Vertical Shaft Up with Belly Band	15M/370V	R17470 F48U09A27
OAN140	3/4	460	1075	2.75	CCWLE	1/2 x 4	6.36	Ball	5 5/8	Semi	Vertical Shaft Up with Belly Band	12.5M/370V	P99140 F48R38A27C

Amana

Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Replaces
Fasco / Packard															
G2243	—	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	TE	5M/370V	20181701
G2246	—	1/5	208-230	1060	1.60	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	5M/370V	20181702
65337	3/4	—	120	3000	0.75	1	CCW	3/16 x 2	—	SP	Sleeve	—	Open	—	C87131-1

American Water Heater

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
Fasco										
W1	1/25	115	3210	1.90	1	CW	SP	Sleeve	OFC	3000288



A.O. Smith

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
Fasco										
W4	1/20	115	3400	1.80	1	CCW	SP	Sleeve	Open	183381-000
W2	1/14	115	3275	2.30	1	CW	SP	Ball	Open	183505-000

Bradford White

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
Fasco										
W3	1/17	115	3000	1.80	1	CCW	SP	Sleeve	Open	117524-00 239-39785-00
W6	1/15	115	3000	2.20	1	CCW	SP	Sleeve	Open	239-40614-00C
W5	1/14	115	3275	2.50	1	CW	SP	Ball	Open	239-42133-00B

Broan

Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Replaces	Notes
Packard															
65094	7/8	—	120	3000	1.40	1	CCW	7/32 x 1 3/8	—	SP	Sleeve	—	Open	99080094 99080099 99080166	
65159	7/8	—	120	3000	0.71	1	CCW	1/4 x 2 3/4	—	SP	Sleeve	—	Open	99080159	491
65216	5/8	—	120	3000	0.51	1	CCW	0.181 x 1 1/2	—	SP	Sleeve	—	Open	99080090 99080216	
65366	5/8	—	120	3000	0.50	2	CCW	3/16 x 1 1/4	—	SP	Sleeve	—	Open	99080365	
65176	1 1/8	—	120	3000	1.00	1	CW	7/32 x 1 1/2	—	SP	Sleeve	—	Open	99080176	
69316	—	—	115	1100	3.40	1	CWSE	1/2 x 3 1/16	2 5/8	SP	Sleeve	5	Open	97009316	
69317	—	—	115	1100	4.30	1	CWSE	1/2 x 2 5/8	2 1/4	SP	Sleeve	5	Open	97009317 99080267	
82583	—	1/100	120	1550	0.55	1	CCW	5/16 x 1 3/4	2 1/2	SP	Sleeve	3.3	Open	97008583	45 513
82633	—	1/50	120	1400	0.78	1	CW	5/16 x 1 3/8	2 1/2	SP	Sleeve	3.3	Open	99080273 99080274 99080633	
40752	—	1/40	120	1500	1.30	1	CCW	1/4 x 1 1/2	2 1/8	SP	Sleeve	3.3	Open	97009752 99080096 99080345	512
82584	—	1/30	120	1550	1.20	1	CCW	5/16 x 1 3/4	2 1/2	SP	Sleeve	3.3	Open	97008584	513
82152	—	1/20	120	1550	1.79	3	CCWLE	1 3/4 x 5/16 x 1 3/4	3	SP	Sleeve	3.3	Open	99080152	42
82048	—	20 MHP	120	1600	0.90	1	CW	5/16 x 2 1/16	2 1/4	SP	Sleeve	3.3	Open	97008342 99080048J 99080050 7163-9263	482

Notes:
42. Includes cord and plug
45. Impedence protected

482. Two prong plug and cord attached
491. Has a flattened shaft

512. With cord and 2 prong 90 degree plug
513. Special plug and cord attached

Item ID	Bore (In.)	Diameter (In.)	Bore	Replaces
Packard				
A65216FB	3/16	4 1/2	D Shape	



Carrier

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
Fasco / Packard												
G2243	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	HC34GE234 HC32GE230
D847	1/8	208-230	1125	0.90	1	CCWSE	1/2 x 3 1/2	3 3/4	PSC	Sleeve	5 5/8	HC35VE230
40230	1/8	208-230	1125	0.90	1	CCWSE	1/2 x 3 1/2	3 3/4	PSC	Sleeve	5 5/8	HC35VE230
G2246	1/5	208-230	1080	1.60	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	HC37GE232
D843	1/4-1/5	208-230	1075	2.20-2.00	1	Reversible	1/2 x 4 1/4	4	PSC	Sleeve	5 5/8	HC37MZ220 HC39VE608 HC39ML706 HC39ME720
82210	1/3	208-230	1625	1.80	1	CCWLE	5 5/8 x 1/2 x 5 3/4	4 5/16	PSC	Sleeve	5 5/8	HC41FB666
82113	3/4	115	1075	11.0	3	CW	1/2 x 2 3/4	5.40	PSC	Ball	5 5/8	HC45TE113 5KCP39PGV623CS

Choice Vending

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Replaces
Packard											
65533	1/2	120	3000	0.22	1	CW	Splined (3/16 Diameter)	SP	Sleeve	Open	863243

Copeland

Item ID	H.P.	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Hertz	Replaces	Notes
Electric Motor and Specialties / Packard																
15020	—	35	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	60	050-0267-0	
65020	—	35	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	50/60	050-0267-0	
15040	—	50	115	1500	1.70	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	—	Semi	60	050-0244-01	
65040	—	50	115	1500	1.70	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	—	Semi	50/60	050-0244-01	
15041	—	50	230	1500	0.85	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	—	Semi	60	050-0244-00	
65041	—	50	230	1500	0.85	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	—	Semi	50/60	050-0244-00	
15045	—	50	230	1500	0.85	1	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	—	Open	60	050-0264-0	
65045	—	50	230	1500	0.85	1	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	—	Open	50/60	050-0264-0	
15049	—	50	208-230	1500	0.85	1	CW	3/8 x 1 1/2	3 3/4	SP	Unit	—	Semi	50/60	050-0244-00	97
15460	—	50	460	1500	0.44	1	CW	3/8 x 1 1/2	3 5/8	SP	Unit	—	Semi	60	050-0244-02	
40265	1/6	—	208-230	1550	1.10	1	Reversible	1/2 x 3	3 1/2	PSC	Sleeve	5 5/8	Open	50/60	050-0265-00	
40251	1/6	—	230	1625	1.10	1	CCWSE	1/2 x 3 7/8	3 7/8	PSC	Sleeve	5 5/8	Open	50/60	998-0251-00	
40250	1/4	—	230	1625	1.50	1	CCWSE	1/2 x 3 7/8	3 7/8	PSC	Sleeve	5 5/8	Open	50/60	950-0250-00	

Notes:
97. May be used on 208 Volt applications



65333



65514



80010



82201



D236



D258



D715



D716



G2243
G2244
G2246

Delfield

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces
Packard												
65514	5/8	120	3000	0.44	1	CW	3/16 x 3/4	SP	Sleeve	Open	60	1175-10-4439

Ducane

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Replaces
Fasco														
G2243	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	TE	5M/370V	20390801
G2246	1/5	208-230	1080	1.60	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	5M/370V	20390806
G2244	1/4	208-230	1075	1.70	1	CWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	7.5M/370V	20390802

First Company

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Replaces	Notes
Fasco / Packard														
D236	1/10-1/15-1/25	115	1550	3.50-2.40-1.80	3	DS	7 1/2 x 1/2 x 7 1/2	3 3/8	SP	Sleeve	4.4	Open	SD-110021	
D258	1/5-1/10	208-230	1550	2.80-1.30	2	CCWLE	8 x 1/2 x 8	3 3/8	PSC	Sleeve	5	Open	M10	515 556
D715	1/8	208-230	1500	1.40	2	CCWLE	6 1/2 x 1/2 x 6 1/2	4	PSC	Sleeve	5 5/8	Open	M8	
D716	1/4	208-230	1625	1.65	2	CCWLE	7 3/4 x 1/2 x 7 3/4	3 3/4	PSC	Sleeve	5 5/8	Open	M10	
80010	1/4	208-230	1625	1.65	1	CCWLE	7 1/4 x 1/2 x 7 1/4	4.57	PSC	Ball	5 5/8	Open	M10	
82201	1/4	208-230	1145	1.21	1	CCWSE	1/2 x 7/1/2	4.19	PSC	Ball	5 5/8	Open	M201B	

Notes:
515. 5M 370V capacitor included

556. Comes with 2 1/2" O.D. rubber mounting rings

Frigidaire

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces
Packard												
65333	1/2	120	3000	0.88-0.68	1	CCW	3/16 x 1 1/8	SP	Sleeve	Open	60	1137820



41728



65017



65018



65335



65338



65685



90318



D1050



OGD1016
OGD1026



OTR4513

General Electric

Item ID	Stack Size (In.)	Watts	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	Dia. (In.)	ENCL.	Hertz	Replaces
Century / Fasco / Packard															
65338	1/2	—	—	120	3000	0.88-0.68	1	CW	1/8 x 1 1/4	SP	Sleeve	—	Open	60	WR60X162
65685	1	—	—	120	3000/1550	1.41	2	CW	3/16 x 1 5/8	SP	Sleeve	—	Open	60	WB26X45
65018	—	5	—	115	1550	0.34	1	CW	1/4 x 1/2	SP	Unit	—	TE	50/60	5KSM81FFL18
65017	—	9	—	115	1550	0.55	1	CW	1/4 x 1/2	SP	Unit	—	TE	50/60	5KSM81FFL17
41728	—	—	1/8	230	1550	1.10	1	CW	1/2 x 3	PSC	Sleeve	5	Semi	60	5KSP29DK1728S WW94X936PSC
D1050	—	—	1/8	230	1550	1.10	1	CW	1/2 x 3	PSC	Sleeve	5	Open	60	5KSP29DK1728S
OTR4513	—	—	1/8	208-240	1550	0.80-0.90	1	CCWLE	1/2 x 3 1/8	PSC	Sleeve	5	TE	60	5KSP29DK1728S

Gibson

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces
Packard												
65335	5/8	120	3000	1.35	1	CW	3/16 x 1 3/8	SP	Sleeve	Open	60	33-335

Goodman

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Leads (In.)	Replaces
Century															
OGD1016	1/6	208-230	1075	1.00	1	CCWLE	1/2 x 3 3/4	3 7/8	PSC	Sleeve	5 5/8	Open	5M/370V	40	B13400-251
OGD1026	1/4	208-230	1075	1.50	1	CCWLE	1/2 x 3 1/4	4 1/4	PSC	Sleeve	5 5/8	Open	5M/370V	47	B13400-247

Greenheck

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
Packard													
90318	1/8	115	1550/1300/1050	2.60	3	CCWSE	1/2 x 2 3/4	3 5/8	PSC	Ball	5.12	Thru Bolt	308318

GSW



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
Fasco										
W7	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	63217
W8	1/25	115	3200	1.30	1	CW	SP	Sleeve	OFC	63172

Heatcraft - Bohn - Larkin

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
Century / Fasco / Morrill Motors / Packard												
572A	1/20	115	1550	1.90	CWSE	5/16 X 3	3	SP	Sleeve	3.3	5008S	111
574	1/20	115	1550	1.60	CCWSE	5/16 x 2 5/8	2 3/4	SP	Sleeve	3.3	253-1194	7 111 498
D1101	1/20	115	1500	1.90	CCW	5/16 x 2 1/4	2 3/4	SP	Sleeve	3.3	253-1194	329
41101	1/20	115	1500	1.90	CCW	5/16 x 2 1/4	2 3/4	SP	Sleeve	3.3	253-1194	463
41194	1/20	115	1550	1.90	CCW	5/16 x 2 3/8	2 5/8	SP	Sleeve	3.3	253-1194	7 111 498
575	1/20	208-230	1550	0.90	CCWSE	5/16 x 2 1/2	2 3/4	SP	Sleeve	3.3	253-1195	7 111 498
D1103	1/20	208-230	1500	1.15	CCW	5/16 x 2 1/4	3	SP	Sleeve	3.3	253-1195	329
41103	1/20	208-230	1500	0.93	CCW	5/16 x 2 1/4	2 7/8	SP	Sleeve	3.3	253-1195	463
41195	1/20	208-230	1550	0.89	CCW	5/16 x 2 3/8	2 7/8	SP	Sleeve	3.3	253-1195	500
45036	1/20	115	1550	2.10	CW	5/16 x 2	2 7/8	SP	Sleeve	3.3	5036-SS	
D1124	1/20	115	1550	2.10	CW	5/16 x 3	3	SP	Sleeve	3.3	5008S	500
41124	1/15	115	1550	2.00	CW	5/16 x 3	3 1/2	SP	Sleeve	3.3	5008S	329 551
45008S	1/15	115	1550	1.80	CWSE	5/16 x 3	3	SP	Sleeve	3.3	5008S 5034LS	499
D1126	1/15	230	1550	1.10	CW	5/16 x 3	3 1/2	SP	Sleeve	3.3	5008T 5KSM59LS2262AS	500
41126	1/15	208-230	1550	1.10	CW	5/16 x 3	3 1/2	SP	Sleeve	3.3	5008T 5034L	329 500
573A	1/15	208-230	1550	1.30	CWSE	5/16 X 3	3 5/8	SP	Sleeve	3.3	5008T	111
45008T	1/15	208/230	1550	1.20-1.00	CWSE	5/16 x 3	3 1/2	SP	Sleeve	3.3	5008T 5034MS	499
35100	1/15	115	1550	1.30	CWOSE	5/16 x 4 1/8	2 5/8	ECM	Ball	3.3	253-1194	
35101	1/15	115	1550	1.30	CCWOSE	5/16 x 4 1/8	2 5/8	ECM	Ball	3.3	5008S	
35200	1/15	208-230	1550	0.80	CWOSE	5/16 x 4 1/8	2 5/8	ECM	Ball	3.3	253-1195	
35201	1/15	208-230	1550	0.80	CCWOSE	5/16 x 4 1/8	2 5/8	ECM	Ball	3.3	5008T	

Notes:
 7. Supplied with lead and plug assembly
 111. Includes special plug
 329. Motor has 4 studs on both ends
 463. Identical Bolt Pattern of Larkin
 498 50/60 Hertz
 499. Identical bolt pattern as OEM motor
 500. Includes Cord and Lyall Plug
 551. Low Temp. Oil



9721



41125



49101



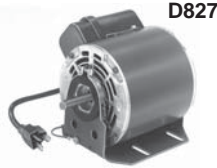
65119



65691
65692



97701
97801



D827



D863



D1125



D1127

Heatcraft - Bohn - Larkin

Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
Century / Fasco / Packard													
D1127	—	1/12	115/230	1550	1.10/0.60	Rev.	5/16 x 3	3 1/2	PSC	Sleeve	3.3	7071061 25309101 5KSM59ES2001 5KSM59JS5036S 5KSM59JSK1435 5KSM59LS2262AS	
D1125	—	1/12	208-230	1550	0.40	CCW	5/16 x 2 5/8	3 3/4	PSC	Sleeve	3.3	7190-0442	42 304
41125	—	1/12	208-230	1550/1400	0.50	CCW	5/16 x 2 5/8	3 1/2	PSC	Sleeve	3.3	5008T	304 500
9721	—	1/12	115/208-230	1550	1.10/0.50	Rev.	5/16 x 3 1/4	3 5/8	PSC	Ball	3.3	7071061 25309101	189 498
49101	—	1/12- 1/15-1/20	115/208-230	1550/1400	1.10/0.60	Rev.	5/16 x 3 1/8	3 5/8	PSC	Ball	3.3	7071061 25309101	189 498
97701	—	1/15, 1/20, 1/25	230	1625	0.70	CWSE	5/16 x 2.95	2.85	ECM	Ball	5	22617701 22617901 25307701 25307901	
97801	—	1/15, 1/20, 1/25	120	1625	1.20	CWSE	5/16 x 2.95	2.85	ECM	Ball	5	22617801 22618001 25307801 25308001	
D863	—	1/2	208-230	1075	4.00	Rev.	1/2 x 3	6 3/4	PSC	Ball	5 5/8	SCS0500HI-CPM120-3	
65691	5/8	—	120	3000	0.64	CW	7/32 x 1 3/8	—	SP	Sleeve	—	5007S 5018S 5036F	354 472 474
65692	5/8	—	240	3000	0.32	CW	0.181 x 1 3/8	—	SP	Sleeve	—	5007T 5018T 5036G	354 472 474

Notes:
 42. Includes Cord and Plug
 189. Includes Reversing plug
 304. Run capacitor mounted on motor shell
 354. Impedence protected
 472. Includes stand offs for other Bohn applications
 474. Used in Bohn commercial evaporators
 498 50/60 Hertz
 500. Includes Cord & Lyall Plug

Herman Nelson

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
Fasco												
D827	1/8	115	700	2.50	1	CCW	1/2 x 2	5 1/2	PSC	Ball	5 5/8	7-150444-02

Hill

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Hertz	Mounting	Replaces	Notes
Packard												
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	TE	50/60	Double Foot Pads	PP7577M	87

Notes:
 87. Includes straight Lyall plug



15020
15021
65020
65021



15041
65041



61103



61104



65133



D890



65455

Hussmann

Item ID	Watts	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Mounting	Replaces	Notes
Fasco / Packard															
65133	9	—	115	1550	0.50	CW	1/4 x 1/2	2 1/2	SP	Unit	—	TE	Single Foot Pad	58698	87
61103	12	—	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	SP	Unit	—	TE	No Foot Pad	0047000 441-103 0440421 125-01-0615A	87
NEW 61104	12	—	115	1550	0.62	CWLE	1/4 x 1/2	2 11/16	SP	Unit	—	TE	Double Foot Pads	4410311	87
D890	—	1/2	208-230	1725	2.70	CCW	1/2 x 3 1/2	4 1/2	SP	Sleeve	5 5/8	Open	—	259983 K55HXCTP-9963	

Notes: 87. Includes straight Lyall plug

Ice-O-Matic

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
Electric Motor and Specialties / Packard											
15020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-01
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-01
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-03 309316-000
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03 309316-000
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	319357-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	319357-000

IMI Cornelius

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
Electric Motor and Specialties / Packard											
15021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	9161078-03 309316-000
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03 309316-000
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	319357-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	319357-000

Kitchen Aid

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Replaces
Packard											
65455	1/2	120	3000	0.35	1	CW	7/32 x 1	SP	Sleeve	Open	240332-1 4162472



Krack

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
Century / Fasco / Packard													
D1189	1/20	115/208-230	1550	1.40/0.76	1	CWSE	5/16 x 1 5/8	3 1/8	SP	Ball	3.3	Lug	11528 11529
41189	1/20	115/208-230	1350/1550	1.60/0.80	1	CWSE	5/16 x 1 5/8	3 1/16	SP	Ball	3.3	Lug	11528 11529
OKR1096	1/2	208-230/460	1140	2.00-1.90/0.95	1	Reversible	5/8 x 2	9 1/4	3 phase	Ball	6 1/2	Belly Band	150372 11096
OKR1503	1	200-230/460	850	4.40-4.00/2.00	1	Reversible	5/8 x 3 1/4	10 1/4	3 phase	Ball	6 1/2	Belly Band	151437 11503

Kyser Warren

Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	ENCL.	Hertz	Mounting	Replaces
Morrill Motors													
10019	9	115	1550	0.53	1	CW	1/4 x 1/2	2 3/8	SP	TE	60	No Foot Pads	5991

L.L. Building

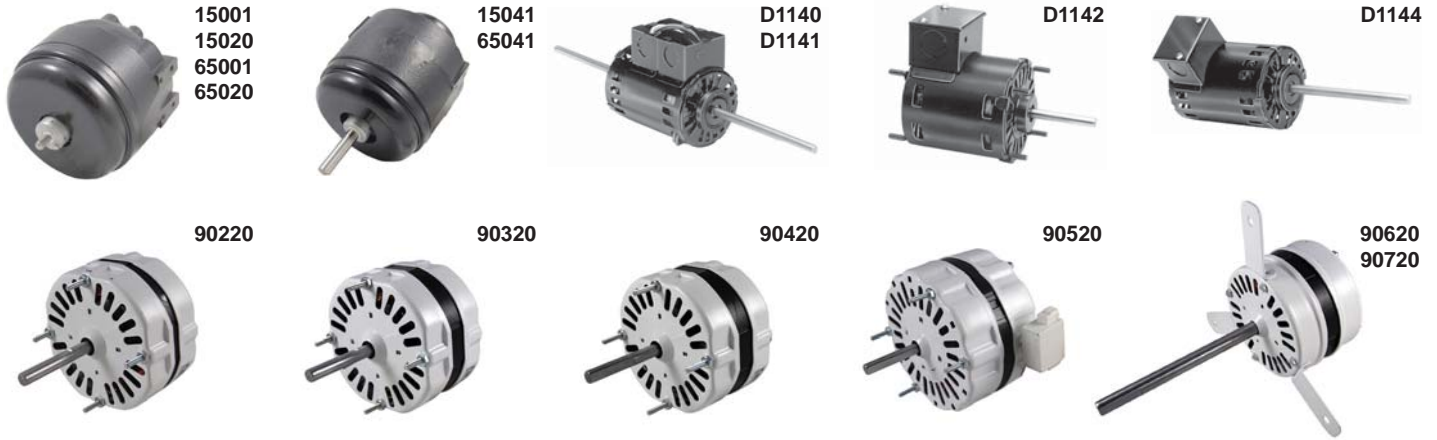
Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	ENCL.	Dia. (In.)	Capacitor Included	Replaces
Packard													
99371	1/7	120	1050	2.80	1	CWSE	1/2 x 2.30	3.08	PSC	Open	5.12	8M/250V	V909371 V909336
99321	1/5	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	Open	5.12	10M/250V	V909321 V909337
99319	1/4	120	1050	3.30	1	CWSE	1/2 x 2.30	3.33	PSC	Open	5.12	10M/250V	V909319
99320	—	120	900	3.40	1	CWSE	1/2 x 2.02	2.27	SP	Open	5.12	—	V909320

Lennox

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor Required	Replaces
Fasco														
G2247	1/6	208-230	1100	1.30	1	CCWLE	1/2 x 2 3/4	3 7/8	PSC	Ball	5	TE	5M/370V	31L1901

Lomanco

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Mounting	Replaces
Packard														
70059	1/10	115	1100	3.40	1	CW	1/2 x 1 5/8	2 1/4	SP	Sleeve	5	Open	Lug	AO416B2059 AO510B2389 AO510B2497
Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation	Replaces							
FB99100	12	5	Discharge	1/2	33	CW	Used with 70059							



Loren Cook

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Mounting	Replaces
Packard													
90220	1/114	115	1500	0.75	2	CW	3/8 x 2 3/4	2 3/8	SP	Sleeve	4.4	Thru Bolt	220/240
90320	1/16	115	1550	2.20	2	CW	3/8 x 2 1/2	2 5/8	SP	Sleeve	4.4	Thru Bolt	320/340
90420	1/23	115	1500	1.50	1	CW	3/8 x 2 3/4	2 5/8	SP	Sleeve	4.4	Thru Bolt	420
90520	1/16	115	1200	1.50	1	CW	3/8 x 2 1/4	3	PSC Cap Included	Sleeve	5.12	Thru Bolt	520
90620	1/11	115	1500	4.60	2	CW	1/2 x 6 1/4	3	SP	Sleeve	4.4	Lug Mount	620/640
90720	1/4	115	1625	3.90	2	CW	1/2 x 6 1/4	3 3/8	PSC Cap Included	Sleeve	5.12	Lug Mount	720/740

Manitowoc

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
Electric Motor and Specialties / Packard											
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002412283
15020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	60	002401591 002412373
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002401591 002412373
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	002412353
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	002412353

McQuay

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
Fasco												
D1144	1/25-1/35-1/65	115	1200	1.10-0.90-0.60	CW	3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	BA2H015	
D1141	1/15-1/25-1/35	115	1000	1.30-1.10-0.90	Double Shaft	5 5/8 x 3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	879-382563B-00	
D1140	1/10-1/12-1/15	115	1500	2.20-2.00-1.70	Double Shaft	5 5/8 x 3/8 x 5 5/8	4 3/4	PSC	Sleeve	3.3	879-382564B-00	
D1142	1/15	115/230	1500	1.70-0.90	CW	5/16 x 2 1/2	3 1/2	SP	Sleeve	3.3	879-382-562-ZB-00	356

Notes:
356. Has special 3.15" bolt circle



Nutone

Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Replaces	Notes
Packard															
40695	—	1/100	120	1180	0.60	1	CWSE	1/4 x 1 1/8	—	SP	Sleeve	3.3	Open	0695B000	529
82512	—	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/8	2 1/16	SP	Sleeve	3.3	TE	26750 26761	42
82513	—	1/100	115	1550	0.70	1	CCW	1/4 x 1 1/4	2 1/16	SP	Sleeve	3.3	TE	23388 23405	41 42
82635	—	1/91	115	1550	0.45	1	CCW	5/16 x 1 1/8	2.09	SP	Sleeve	3.3	TE	54123 54257	42
80600	—	1/80	115	3000	0.65	1	CW	1/4 x 2 1/8	2 1/2	SP	Sleeve	3.3	Open	16553	41
82637	—	1/75	115	1550	0.63	1	CCW	1/4 x 1 1/8	2	SP	Sleeve	3.3	TE	53581	42
82510	—	1/70	115	1320	0.85	1	CW	1/4 x 1 1/8	2 1/16	SP	Sleeve	3.3	Open	C65073	41 482
82733	—	1/50-1/80	115	3000	1.00-0.60	2	CW	1/4 x 1 1/4	2.59	SP	Sleeve	3.3	TE	C26733	42
40933	—	1/50	120	1550	1.20	1	CCW	1/4 x 1	1 7/8	SP	Sleeve	3.3	Open	86933000 86933	482
40696	—	1/45	115	1400	0.70	1	CCWLE	1/4 x 1	—	SP	Sleeve	3.3	Open	0696B000 86322	529
82621	—	1/10	115	1550	3.80	1	CCW	5/16 x 1 1/2	3 5/8	SP	Ball	3.3	Open	32997 67176	
65100	1/2	—	120	3000	0.60	1	CCW	7/32 x 1 5/8	C-Frame	SP	Sleeve	—	Open	C65878	105
65112	1/2	—	120	3000	0.76	1	CCW	7/32 x 1 3/4	C-Frame	SP	Sleeve	—	Open		104 105
82423K	1/2	—	120	3000	0.60	1	CW	7/32 x 1 1/2	C-Frame	SP	Sleeve	—	Open	89423-000	106
65106	5/8	—	115	3000	0.70	1	CCW	7/32 x 2 3/8	C-Frame	SP	Sleeve	—	Open	C68627	485
65709	5/8	—	120	3000	0.88	1	CCW	7/32 x 2 3/8	C-Frame	SP	Sleeve	—	Open	C53709	108 485
65894K	3/4	—	120	3000	0.90	1	CCW	7/32 x 2 3/8	C-Frame	SP	Sleeve	—	Open	82229 K5894	106
65104	3/4	—	120	3000	0.74	1	CCW	7/32 x 1 3/4	C-Frame	SP	Sleeve	—	Open	C66582	107
65105	7/8	—	120	3000	0.88	2	CCW	7/32 x 1 7/16	C-Frame	SP	Sleeve	—	Open	C27987	110
65101	7/8	—	120	3000	0.86	2	CW	7/32 x 1 5/16	C-Frame	SP	Sleeve	—	Open	C52367	110
65103	7/8	—	120	3000	0.71	1	CCW	7/32 x 1 1/4	C-Frame	SP	Sleeve	—	Open	C63675	485
65272	1	—	120	3000	1.00	1	CCW	7/32 x 1 1/2	C-Frame	SP	Sleeve	—	Open	C23272	485

Notes:

- 41. 1 1/8" Hubs
- 42. Includes cord and plug
- 44. Same as 65100 except mounting screws are on the shaft end
- 104. Includes A65100FB impeller
- 106. Assembled with bracket as illustrated
- 107. Has eyelet terminals on leads
- 108. Has a one shot overload
- 110. Includes two speed plug
- 482. Two prong plug and cord attached
- 485. Includes two prong plug
- 529. Complete assembly, motor, mounting flange and blower wheel



10037
10038



A65100FB



A65900



D342



G2243



OPV343



OPV346



OPV746



OPV400206



OPV748



OPV747

Nutone

Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
Packard					
A65100FB	7/32	4 9/16	—	D Shape	68920
A65900	1/4	5 3/4	2	D Shape	59000A000

Nordyne

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Capacitor	Replaces
Fasco														
G2243	1/10	208-230	1100	0.74	1	CWLE	1/2 x 2 3/4	3 3/8	PSC	Ball	5	TE	5M/370V	621865

Oasis

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	ENCL.	Mounting	Hertz	Replaces
Packard												
10037	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	SP	TE	Double Foot Pads	60	027354-026 027354-037
10038	9	115	1550	0.53	CW	1/4 x 1/2	2 1/2	SP	TE	Double Foot Pads	60	027354-038

Penn Ventilator

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Dia. (In.)	ENCL.	Replaces
Century / Fasco											
OPV400206	1/40	115	1050	1.10	CCWLE	3/8 x 2 1/4	3	SP	5	Open	D340 Z-6
OPV343	1/40	115	1550/1050	1.40/0.60	CCWLE	1/3 x 5 3/4	2 1/4	SP	3.3	Open	56343-0 JA2M414-T
D342	1/15	115	1050	2.30	CW	3/8 x 2 1/2	2 5/8	SP	5	Open	7151-3081 7151-3565
OPV747	1/7, 1/11, 1/25	115	1550/1300/1050	2.50/2.10/1.60	CCWLE	1/2 x 2 1/2	4 1/4	PSC	5	Open	63747-0 DE2F7085-T
OPV748	1/6, 1/12, 1/20	115	1550/1300/1050	2.10/1.90/1.40	CCWLE	1/2 x 2 3/5	4 1/4	PSC	5	Open	63748-0 DE2F7088-T
OPV746	1/12	115	1550/1300	1.50/0.90	CCWLE	1/3 x 3 1/3	3 5/6	PSC	3.3	Open	63746-0 JE2H057-T
OPV346	1/4	115	1550/1050	3.60/2.50	CCWLE	1/3 x 5 1/3	4 2/3	PSC	3.3	Open	56346-0 JE2K007-T



63382



D742
D743



D832



D2834
D2840



D2850
D2851



D2862



ORM10206V1

Rheem

OEM DIRECT

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces
Century / Fasco / Packard											
D832	1/8	208-230	825	1.10	Reversible	1/2 x 4 3/4	4	PSC	Sleeve	5 5/8	21276-02 21276-01 512076-01
D2840	1/5	208/230	1075	1.30	CW	1/2 x 4 1/8	3 3/4	PSC	Sleeve	5 5/8	51-21853-82
D743	1/5	208-230	1075	1.20	Reversible	1/2 x 6	3 1/2	PSC	Sleeve	5 5/8	95-3154
ORM10206V1	1/5	208-230	1075	1.40	Reversible	1/2 x 4 1/4	3 7/8	PSC	Sleeve	5 5/8	KA55HXMPT-6557 51-20672-01 51-20673-01 51-20674-01 51-20675-01 51-20679-01 51-20680-01 51-20681-01 51-20682-01 51-21826-01 51-21827-01 51-21828-01 51-21829-01 51-21830-01 51-21831-01
NEW 63382	1/5	208-230	1075	1.30	Reversible	1/2 x 3 3/4	3 3/4	PSC	Ball	5 5/8	51-21853-82 KA55HXMPT-6557 51-20672-01 51-20673-01 51-20674-01 51-20675-01 51-20679-01 51-20680-01 51-20681-01 51-20682-01 51-21826-01
D742	1/4	208-230	1075	2.10	Reversible	1/2 x 6	4	PSC	Sleeve	5 5/8	
D2834	1/3	208/230	1075	2.00	CW	1/2 x 4 1/4	4	PSC	Sleeve	5 5/8	51-21853-83
D2862	1/2	208-230	1075	4.00	Reversible	1/2 x 3	6 1/2	PSC	Ball	5 5/8	5KCP37PN244BS MTG3041
D2850	1 3/4	208-230/460 (60Hz) 200/380-415 (50Hz)	1125/950	4.60/2.30	CW	1/2 x 3.45	6 1/2	PSC	Ball	5 5/8	5KCP39SFL153DS MOT05717 X70671180017 X70670706010 MOT03771
D2851	1 3/4	208-230/460 (60Hz) 200/380-415 (50Hz)	1125/950	4.60/2.30	CW	1/2 x 3.45 Keyed	6 1/2	PSC	Ball	5 5/8	5KCP39SFL153DS MOT09188 MOT09192 X7067165301 X70671656010



15020
15021
65001
65020
65021



15040
15041
65040
65041



15045
65045



67154



OTC1862
OTC1864



OTC6001
OTC6004



W9



W10

Russell Coil

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces
Packard												
67154	3/4	120	3000	0.55	1	CCW	1/4 x 5/8	SP	Sleeve	Open	60	102249-005

Scotsman

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	ENCL.	Mounting	Hertz	Replaces
Electric Motor and Specialties / Packard											
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	18-7200-01
15040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi-Enclosed	Double Foot Pads	60	18-5105-11
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-11
15041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	60	18-5105-02
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-02

State Ind.

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Replaces
Fasco										
W9	1/60	115	3000	0.95	1	CW	SP	Sleeve	OFC	0012400500
W10	1/20	115	3400	1.80	1	CCW	SP	Sleeve	OFC	0012400540

Tecumseh

Item ID	Watts	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	ENCL.	Hertz	Replaces
Century / Electric Motor and Specialties / Packard															
15020	35	—	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	60	810M035A29
65020	35	—	115	1500	1.40	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	50/60	810M035A29
15021	35	—	230	1500	0.70	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	60	810M035A21 810M035A28
65021	35	—	230	1500	0.70	1	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	50/60	810M035A21 810M035A28
15045	50	—	230	1500	0.85	1	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	—	Open	60	810M050A62
65045	50	—	230	1500	0.85	1	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	—	Open	50/60	810M050A62
OTC6004	—	1/20	230	1500	1.11	1	CCWSE	5/16 x 2 1/2	3 1/16	SP	Sleeve	5	Open	50/60	810S037B01
OTC6001	—	1/15	230	1500	1.30	1	CCWLE	5/16 x 2 3/4	3 1/16	SP	Sleeve	5	Open	50/60	810S050A99
OTC1862	—	1/4	230	1625	1.90	1	CWLE	1/2 x 2 3/4	4 3/8	PSC	Ball	5 5/8	Open	50/60	TFM1862 8330 KA55HXKGD8330
OTC1864	—	1/4	460	1625	0.95	1	CWLE	1/2 x 2 3/4	4 3/8	PSC	Ball	5 5/8	Open	50/60	TFM1864 8331 KA55HGE8331



15990



41728



65110K



82324



D895



D1050



D2853



G2245
G2247
G2249



OTR4513

Tradewinds

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
Packard												
82324	1/25	115	1550	2.10	CWLE	3 x 5/16 x 1 7/8	3	SP	Sleeve	3.3	19-09-215	41

Notes:
41. 1 1/8" Hubs

Trane

Item ID	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
Century / Fasco / Packard												
41728	1/8	230	1550	1.10	CW	1/2 x 3	3 1/8	PSC	Sleeve	5	Included	WW94X236SP WW94X936PSC MOT-3438
D1050	1/8	230	1550	1.10	CW	1/2 x 3	3 1/4	PSC	Sleeve	5	Included	WW94X236SP WW94X936PSC
OTR4513	1/8	208-240	1550	0.80-0.90	CCWLE	1/2 x 3 1/8	3 3/8	PSC	Sleeve	5	Included	5KSP29DK1728S MOT-3438
D895	1/8	208-230	1650	0.80	CW	1/2 x 1 1/2		PSC	Sleeve	5 5/8		5KCP39BGR426S MOT6363
G2249	1/8	208-230	1075	0.75	CCW	1/2 x 2 3/4	3 7/8	PSC	Ball	5	5M/370V	D151316P01
G2247	1/6	208-230	1100	1.30	CCWLE	1/2 X 2 3/4	3 7/8	PSC	Ball	5	5M/370V	D151276P01
G2245	1/4	208-230	1075	1.70	CCW	1/2 x 2 3/4	3 7/8	PSC	Ball	5	7.5M/370V	D151060P01 D151269P01 D151270P01
NEW D2853	1/2-1/3	208-230/460	1100/925	5-1.9/1.4-1	Rev.	1/2 x 4	6.05	PSC	Ball	5 5/8	10M/440V	X70670709-01 X70670710

Tyler

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	ENCL.	Hertz	Mounting	Replaces
Morrill Motors												
15990	9	115	1550	0.23	Reversible	1/4 threaded	2 1/2	PSC	TE	50/60	Rear mounting	52179990

Ventline

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Type	Bearings	ENCL.	Hertz	Replaces	Notes
Packard													
65110K	1/2	120	3000	0.41	1	CW	Splined	SP	Sleeve	Open	60	J238-050-5330	101

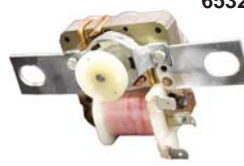
Notes:
101. Includes 6 1/2" Fan Blade. Used on Ventline found in many Mobile Homes



65327



65328



65329



82516



G2248

Whirlpool

Item ID	Stack Size (In.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Replaces	Notes
Packard														
65327	1/2	—	120	3000	1.50	1	CCW	Metal Hub	—	SP	Sleeve	—	482468	112
65328	1/2	—	120	3000	0.32	1	CW	Metal Hub	—	SP	Sleeve	—	482469	112
65329	1/2	—	120	3000	0.51	1	CW	Metal Hub	—	SP	Sleeve	—	482470	112
82516	—	1/15	115	1550	2.50	3	CCWLE	3 1/4 x 5/16 x 3 1/4	3 1/4	SP	Sleeve	3.3		

Notes:

112. Motor Manufactured with Howard Industries Tooling. All Metal Hubs.

York

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Type	Bearings	Dia. (In.)	Capacitor Required	Replaces
Fasco													
G2248	1/8	208-230	1075	0.86	1	CWLE	1/2 X 2 3/4	3 7/8	PSC	Ball	5	5M/370V	024-27551-000

OEM DIRECT

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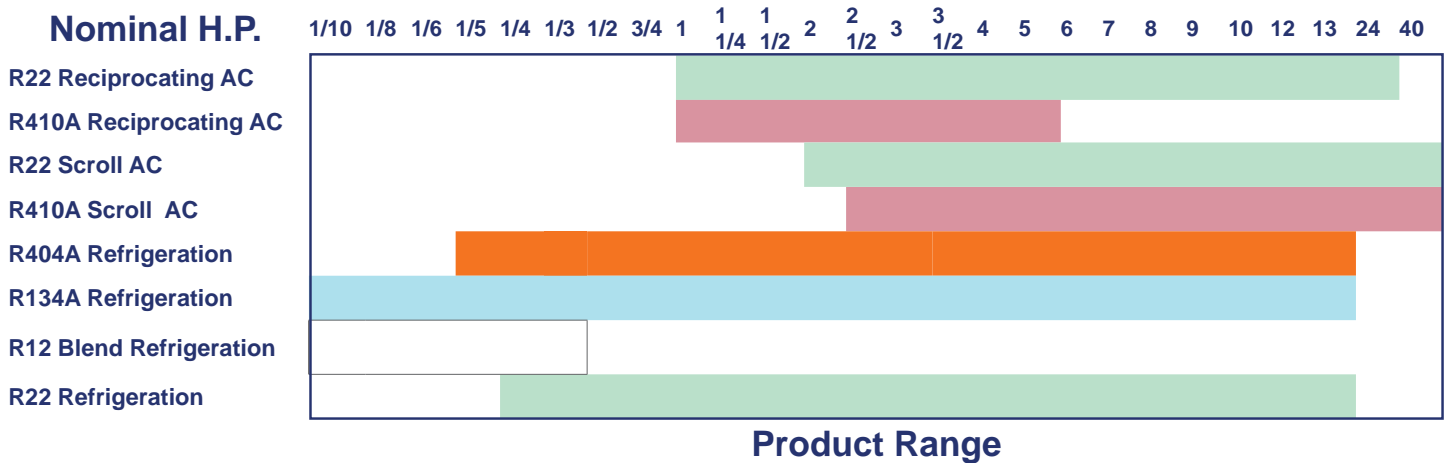


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- Flexible purchasing and quick delivery turnaround
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Residential Appliance Bottling Light Commercial Commercial Industrial

Maneurop MT And NT series compressors

Features

- Often referred to as “THE TANK”, because of its legendary reliability
- Trane and Tecumseh Replacements
- All compressors come with threaded oil sight glass and 3/8” oil equalization connection
- Parts shipped with compressor:
 - Mounting kit with grommets, bolts, nuts, sleeves and washers
 - Suction and Discharge solder sleeves, rotolock nuts and gaskets
 - Initial oil charge and Installation instructions
- Also available in 575/3/60 and 208-230/1/60 volt models
- MTZ series available from MTZ18 through MTZ160
- MT series available from MT18 through MT160
- NTZ series available up through NTZ271
- Please call for availability



Item ID / Voltage		BTU Capacity R22	Rotolock Connections		Solder Sleeve Connection	
			Suction	Discharge	Suction	Discharge
Danfoss Medium High Temp.						
200-230/3/60	460/3/60 400/3/50					
MT28-3VI	MT28-4VI	30200	1 1/4"	1"	5/8"	1/2"
MT32-3VI	MT32-4VI	33000	1 1/4"	1"	5/8"	1/2"
MT36-3VI	MT36-4VI	38000	1 1/4"	1"	5/8"	1/2"
MT40-3VI	MT40-4VI	42900	1 1/4"	1"	5/8"	1/2"
MT44-3VI	MT44-4VI	45200	1 3/4"	1 1/4"	7/8"	3/4"
MT50-3VI	MT50-4VI	50500	1 3/4"	1 1/4"	7/8"	3/4"
MT56-3VI	MT56-4VI	56400	1 3/4"	1 1/4"	7/8"	3/4"
MT64-3VI	MT64-4VI	64800	1 3/4"	1 1/4"	7/8"	3/4"
MT72-3VI	MT72-4VI	70200	1 3/4"	1 1/4"	7/8"	3/4"
MT80-3VI	MT80-4VI	80000	1 3/4"	1 1/4"	1 1/8"	3/4"

R22 BTU Capacity is based on 45°F Evaporating temperature and 130°F Condensing temperature.

Item ID / Voltage		BTU Capacity R404A-R507A	Rotolock Connections		Solder Sleeve Connection	
			Suction	Discharge	Suction	Discharge
Danfoss Low Temp.						
200-230/3/60	460/3/60 400/3/50					
NTZ048-3	NTZ048-4	4888	1 1/4"	1"	5/8"	1/2"
NTZ068-3	NTZ068-4	8185	1 1/4"	1"	5/8"	1/2"
NTZ096-3	NTZ096-4	9917	1 3/4"	1 1/4"	7/8"	3/4"
NTZ108-3	NTZ108-4	11470	1 3/4"	1 1/4"	7/8"	3/4"

R404A-R507A BTU Capacity is based on -25°F Evaporating temperature, 105°F Condensing temperature, 40°F Return Gas and 0°F Sub Cooling.

Item ID / Voltage		BTU Capacity			Rotolock Connections		Solder Sleeve Connection	
		R404A	R407C	R134A	Suction	Discharge	Suction	Discharge
Danfoss Medium High Temp.								
200-230/3/60	460/3/60 400/3/50							
MTZ28-3VI	MTZ28-4VI	15980	28070	19260	1 1/4"	1"	5/8"	1/2"
MTZ32-3VI	MTZ32-4VI	17450	30702	20940	1 1/4"	1"	5/8"	1/2"
MTZ36-3VI	MTZ36-4VI	20150	34120	24490	1 1/4"	1"	5/8"	1/2"
MTZ40-3VI	MTZ40-4VI	23000	40030	27870	1 1/4"	1"	5/8"	1/2"
MTZ44-3VI	MTZ44-4VI	24250	43030	29850	1 3/4"	1 1/4"	7/8"	3/4"
MTZ50-3VI	MTZ50-4VI	28300	48150	34460	1 3/4"	1 1/4"	7/8"	3/4"
MTZ56-3VI	MTZ56-4VI	31800	54370	38010	1 3/4"	1 1/4"	7/8"	3/4"
MTZ64-3VI	MTZ64-4VI	36730	60450	45290	1 3/4"	1 1/4"	7/8"	3/4"
MTZ72-3VI	MTZ72-4VI	40470	67930	50000	1 3/4"	1 1/4"	7/8"	3/4"
MTZ80-3VI	MTZ80-4VI	45760	76910	56520	1 3/4"	1 1/4"	1 1/8"	3/4"

R404A BTU Capacity is based on 20°F Evaporating temperature, 120°F Condensing temperature, 0°F Sub Cooling and 20°F Superheat.

R407C BTU Capacity is based on 45°F Evaporating temperature, 130°F Condensing temperature, 15°F Sub Cooling and 20°F Superheat.

R134A BTU Capacity is based on 45°F Evaporating temperature, 130°F Condensing temperature, 15°F Sub Cooling and 20°F Superheat.

Residential Heat Pump And AC Reciprocating Compressors



H22J

H22A



Made In USA

Features

- Single phase and three phase
- Designed for easy drop in installation in air conditioning and heat pump applications
- Quick connect wiring connections
- Direct replacement compressors for OEM applications
- Compressors come with internal high pressure relief valve and internal linebreak motor protection
- Compressors come completely dehydrated, fully oil charged with mounting hardware and terminal cover

Item ID	Nominal Refrig	Nominal H.P.	Nominal Volts-Phase-Hertz	Nominal Capacity	Discharge Foot	Suction Size (In.)	CCH	Tecumseh	Replaces Copeland	Bristol	
Bristol R22 Series											
H22J15BABCA	R22	1 1/4	230/208-1-60	15000	7.5" x 7.5"	1/2 E	3/4 S	YES	AW*5515	CR16K	H29B15UABCA
H22J18BABCA	R22	1 1/2	230/208-1-60	18000	7.5" x 7.5"	1/2 E	3/4 S	YES	AW*F5518	CR18K	H29B18UABCA
H2EB18SABCA	R22	1 1/2	230/208-1-60	18000	7.5" x 7.5"	3/8 E	5/8 S	NO	AW*F5519	CR18K	H29B18UABCA
H2EB18SABCB	R22	1 1/2	230/208-1-60	18000	4.8" x 8"	3/8 E	5/8 E	NO	NA (rectangle Foot Mount)	NA (rectangle Foot Mount)	H23B18UABCB
H22J22BABCA	R22	2	230/208-1-60	22000	7.5" x 7.5"	1/2 E	3/4 S	YES	AW*5522	CR22K	H29B22UABCA
H2EB223ABCA	R22	2	230/208-1-60	22000	7.5" x 7.5"	3/8 E	5/8 S	NO	AW*5522	CR22K	H29B22UABCA
H2EB24SABCA	R22	2	230/208-1-60	24000	7.5" x 7.5"	1/2 E	3/4 S	NO	AW*5524	CR24K	H29B24UABCA
H2EB24SABCB	R22	2	230/208-1-60	24000	4.8" x 8"	3/8 E	5/8 E	NO	NA (rectangle Foot Mount)	NA (rectangle Foot Mount)	H23B24UABCB
H22J25BABCA	R22	2	230/208-1-60	24800	7.5" x 7.5"	1/2 E	3/4 S	YES	AW*5524	CR24K	H29B24UABCA
H2EB28SABCA	R22	2 1/2	230/208-1-60	28000	7.5" x 7.5"	1/2 E	3/4 S	NO	AW*5528	CR28K	H29B28UABCA
H2EB283ABCB	R22	2 1/2	230/208-1-60	28000	4.8" x 8"	3/8 E	5/8 E	NO	—	—	H23B28UABCB
H22J29BABCA	R22	2 1/2	230/208-1-60	29000	7.5" x 7.5"	1/2 E	3/4 S	NO	A*5528	CR28K	H29B28UABCA
H2EB32SABCA	R22	2 1/2	230/208-1-60	32000	7.5" x 7.5"	1/2 E	3/4 S	NO	AW*5532	CR32K	H29B32UABCA
H22J33BABCA	R22	2 1/2	230/208-1-60	33000	7.5" x 7.5"	1/2 E	3/4 S	YES	AW*5532	CR32K	H29B32UABCA
H22J36BABCA	R22	3	230/208-1-60	36000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5535	CR35K, CR36K	H29B35UABCA
H22J38BABCA	R22	3	230/208-1-60	38000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5538	CR38K	H23A383ABCA
H22J383DBLA	R22	3	230/200-3-60	38000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5538	CR38K	H23A383DBLA
H22J383DBVA	R22	3	460/380-3-60	38000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5538	CR38K	H23A383DBVA
H22J413DBEA	R22	3 1/2	460-3-60	41000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5542	CR41K	H23A413DBEA
H22J413DBLA	R22	3 1/2	230/200-3-60	41000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5542	CR41K	H23A413DBLA
H22J41BABCA	R22	3 1/2	230/208-1-60	41000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5542	CR41K	H23A413ABCA
H22J443DBDA	R22	4	230/208-3-60	44000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5546	CR47K	H23A463DBLA
H22J443DBEA	R22	4	460-3-60	44000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5545	CR47K	H23A463DBEA
H22J44BABCA	R22	4	230/208-1-60	44000	7.5" x 7.5"	1/2 E	3/4 S	YES	AV*5546	CR47K	H23A463ABCA
H22A503ABCA	R22	4	230/208-1-60	50000	7.5" x 7.5"	1/2 E	7/8 S	YES	—	—	—
H22A543ABCA	R22	4 1/2	230/208-1-60	54000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5555	CR53K	H23A543ABCA
H22A543DBEA	R22	4 1/2	460-3-60	54000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5555	CR53K	H23A543DBEA
H22A543DBLA	R22	4 1/2	230/200-3-60	54000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5555	CR53K	H23A543DBLA
H22A563DBLA	R22	5	230/208-3-60	56000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	—	—
H22A583ABCA	R22	5	230/208-1-60	58000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	CRP5-0450	H23A563ABCA
H22A583DBEA	R22	5	460-3-60	58000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	CRN5-0500	H23A563DBEA
H22A623ABCA	R22	5	230/208-1-60	62000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	CR60K	H23A623ABCA
H22A623DBEA	R22	5	460-3-60	62000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	CR60K	H23A623DBEA
H22A623DBLA	R22	5	230/200-3-60	62000	7.5" x 7.5"	1/2 E	7/8 S	YES	AV*5558	CR60K	H23A623DBLA
H29A723DBLA	R22	6	230/200-3-60	72000	7.5" x 7.5"	1/2 E	7/8 E	YES	—	—	—
Bristol R410A Series											
H82J18BABCA	R410A	1 1/2	230/208-1-60	18000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	—	H8*J18*ABCA
H82J22BABCA	R410A	2	230/208-1-60	22000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	CP12K8E-PFV	H8*J22*ABCA
H82J28BABCA	R410A	2 1/2	230/208-1-60	28000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	CP18K8E-PFV	H8*J28*ABCA
H82J32BABCA	R410A	3	230/208-1-60	32000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	CP18K8E-PFV	H8*J31*ABCA
H82J40BABCA	R410A	3 1/2	230/208-1-60	40000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	CP25K8E-PFV	H8*J38*ABCA
H82J50BABCA	R410A	4	230/208-1-60	50000	7.5" x 7.5"	1/2 E	3/4 S	YES	—	—	H8*J50*ABCA

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

Residential Heat Pump And AC Scroll Compressors



Made In USA



Features

- High-quality, quiet, and easy to install solution for scroll compressor replacements
- Universal replacement for air conditioning and heat pump applications
- Same 7.5 square bolt pattern with similar suction/discharge connection heights as Copeland
- Lighter and quieter with 30% fewer parts than Copeland
- Unloaded scroll set eliminates the need for start capacitor
- Superior thermal fault protection (blocked TXV, loss of charge, etc)

Item ID	Refrig	Nominal H.P.	Volts-Phase-Hertz	Nominal Capacity	Discharge Size (In.)	Suction Size (In.)	Replaces	
							Copeland	Carlyle
Danfoss R22 Series								
HRM025T1LP6	R22	2	208-230-1-60	25000	1/2 ODF	3/4 ODF	ZR26***-***-***	XCD250AA
HRM032U1LP6	R22	2 3/4	208-230-1-60	32000	1/2 ODF	3/4 ODF	ZR32***-***-***	XCD320HA
HRM034U1LP6	R22	3	208-230-1-60	34000	1/2 ODF	3/4 ODF	ZR34***-***-***	XCD340HA
HRM038U1LP6	R22	3	208-230-1-60	38000	1/2 ODF	3/4 ODF	ZR36***-***-***	XCD380HA
HRM034U2LP6 *	R22	3	208-230-3-60	34000	1/2 ODF	3/4 ODF	ZR34***-***-***	XCY342HA
HRM038U2LP6	R22	3	208-230-3-60	38000	1/2 ODF	3/4 ODF	ZR36***-***-***	XCY382HA
HRM034U4LP6 *	R22	3	460-3-60 400-3-50	34000	1/2 ODF	3/4 ODF	ZR34***-***-***	XCH342HA
HRM038U4LP6	R22	3	460-3-60 400-3-50	38000	1/2 ODF	3/4 ODF	ZR36***-***-***	XCH382HA
HRM042U1LP6	R22	3 1/2	208-230-1-60	42000	1/2 ODF	3/4 ODF	ZR42***-***-***	XCD420HA
HRM042U2LP6	R22	3 1/2	208-230-3-60	42000	1/2 ODF	3/4 ODF	ZR42***-***-***	XCY422HA
HRM042U4LP6 *	R22	3 1/2	460-3-60 400-3-50	42000	1/2 ODF	3/4 ODF	ZR42***-***-***	XCH422HA
HRM047U1LP6	R22	4	208-230-1-60	47000	1/2 ODF	7/8 ODF	ZR47***-***-***	XCD470HA
HRM047U2LP6	R22	4	208-230-3-60	47000	1/2 ODF	7/8 ODF	ZR47***-***-***	XCY472HA
HRM047U4LP6	R22	4	460-3-60 400-3-50	47000	1/2 ODF	7/8 ODF	ZR47***-***-***	XCH472HA
HRM054U1LP6	R22	4 1/2	208-230-1-60	54000	1/2 ODF	7/8 ODF	ZR54***-***-***	XRD540HA
HRM054U2LP6	R22	4 1/2	208-230-3-60	54000	1/2 ODF	7/8 ODF	ZR54***-***-***	XRY542HA
HRM054U4LP6	R22	4 1/2	460-3-60 400-3-50	54000	1/2 ODF	7/8 ODF	ZR54***-***-***	XRH542HA
HRM058U1LP6	R22	4 3/4	208-230-1-60	58000	1/2 ODF	7/8 ODF	ZR57***-***-***	XRD580HA
HRM058U2LP6	R22	4 3/4	208-230-3-60	58000	1/2 ODF	7/8 ODF	ZR57***-***-***	XRY582HA
HRM058U4LP6	R22	4 3/4	460-3-60 400-3-50	58000	1/2 ODF	7/8 ODF	ZR57***-***-***	XRH582HA
HRM060U1LP6	R22	5	208-230-1-60	60000	1/2 ODF	7/8 ODF	ZR61***-***-***	XRD600HA
HRM060U2LP6	R22	5	208-230-3-60	60000	1/2 ODF	7/8 ODF	ZR61***-***-***	XRY602HA
HRM060U4LP6	R22	5	460-3-60 400-3-50	60000	1/2 ODF	7/8 ODF	ZR61***-***-***	XRH602HA
Danfoss R410A Series								
HRH029U1LP6 *	R410A	2 1/2	208-230-1-60	29000	1/2 ODF	3/4 ODF	ZP29***-***-***	XGD290HA
HRH034U1LP6 *	R410A	2 3/4	208-230-1-60	34000	1/2 ODF	3/4 ODF	ZP34***-***-***	XGD340HA
HRH036U1LP6 *	R410A	2 3/4	208-230-1-60	36000	1/2 ODF	3/4 ODF	ZP36***-***-***	XGD360HA
HRH038U1LP6 *	R410A	3 1/4	208-230-1-60	38000	1/2 ODF	3/4 ODF	ZP38***-***-***	XGD380HA
HRH038U2LP6 *	R410A	3 1/4	208-230-3-60	38000	1/2 ODF	3/4 ODF	ZP38***-***-***	XGY382HA
HRH044U1LP6 *	R410A	3 3/4	208-230-1-60	44000	1/2 ODF	7/8 ODF	ZP44***-***-***	XND440HA
HRH044U2LP6 *	R410A	3 3/4	208-230-3-60	44000	1/2 ODF	7/8 ODF	ZP44***-***-***	XNY442HA
HRH044U4LP6 *	R410A	3 3/4	460-3-60 400-3-50	44000	1/2 ODF	7/8 ODF	ZP44***-***-***	XNH442HA
HRH051U1LP6 *	R410A	4 1/4	208-230-1-60	51000	1/2 ODF	7/8 ODF	ZP50***-***-***	XND510HA
HRH051U2LP6 *	R410A	4 1/4	208-230-3-60	51000	1/2 ODF	7/8 ODF	ZP50***-***-***	XNY512HA
HRH051U4LP6 *	R410A	4 3/4	460-3-60 400-3-50	51000	1/2 ODF	7/8 ODF	ZP50***-***-***	XNH512HA
HRH056U1LP6 *	R410A	4 3/4	208-230-1-60	56000	1/2 ODF	7/8 ODF	ZP57***-***-***	XND560HA
HRH056U2LP6 *	R410A	4 3/4	208-230-3-60	56000	1/2 ODF	7/8 ODF	ZP57***-***-***	XNY562HA
HRH056U4LC6 *	R410A	4 3/4	460-3-60 400-3-50	56000	1/2 ODF	7/8 ODF	ZP57***-***-***	XNH562HE
HLH061T1LP6 *	R410A	5	208-230-1-60	61000	1/2 ODF	7/8 ODF	ZP61***-***-***	XND610HA
HLH061T2LC6 *	R410A	5	208-230-3-60	61000	1/2 ODF	7/8 ODF	ZP61***-***-***	XNY612HE
HLH061T4LC6 *	R410A	5	460-3-60 400-3-50	61000	1/2 ODF	7/8 ODF	ZP61***-***-***	XNH612HE

Notes: * Please call for availability.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

Commercial Air Conditioning Hermetic Compressors



Made In USA



H22G



H2DA

Features

- Completely dehydrated, fully oil charged with mounting hardware and terminal cover provided
- Single and two speed compressors
- Internal line break protection through 12 HP
- 15HP through 24HP compressors packed with external protective module
- Available with Rotolock and sweat connections
- Available with sight glass
- See compressor accessories on page 81-95.

COMPRESSORS

Item ID	Refrig	Nominal H.P.	Volts-Phase-Hertz	Nominal Capacity	Foot	Discharge Size (In.)	Suction Size (In.)	CCH	Module	Replaces	
										Copeland BR	Bristol
Bristol H22G SERIES Single Speed 3 Phase 60 Hertz											
H22G094DBDE #	R22	7 1/2	230/208-3-60	94000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRD20750TFC	H2BG094DBDE #
H22G094DBEE #	R22	7 1/2	460-3-60	94000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRD20750TFD	H2BG094DBEE #
H22G104DBDE #	R22	8 1/2	230/208-3-60	100000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRG20900TFC	H2BG104DBDE #
H22G104DBEE #	R22	8 1/2	460-3-60	100000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRG20900TFD	H2BG104DBEE #
H22G124DBDE #	R22	10	230/208-3-60	120000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRH21000TFC	H2BG124DBDE #
H22G124DBEE #	R22	10	460-3-60	120000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRH21000TFD	H2BG124DBEE #
H22G144DBDE #	R22	12	230/208-3-60	144000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	N/REQD	BRK21200TFC	H25G144DBDE #
H22G144DBEE #	R22	12	460-3-60	144000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	N/REQD	BRK21200TFD	H25G144DBEE #
H22G184DPDF #	R22	15	230/208-3-60	180000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG184DPDF #
H22G184DPEF #	R22	15	460-3-60	180000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG184DPEF #
H22G204FRDF-R	R22	17	230/208-3-60	200000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG204FRDF #
H22G204DREF-R	R22	17	460-3-60	200000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG204DREF #
H22G244FRDF #	R22	20	230/208-3-60	244000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG244FRDF #
H22G244DREF #	R22	20	460-3-60	244000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG244DREF #
H22G294FPDF #	R22	24	230/208-3-60	290000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG294FPDF #
H22G294DPEF-R	R22	24	460-3-60	290000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG294DPEF #
Bristol Two Speed 3 Phase 60 Hz Rotolock with Sight Glass											
H22G094GPDE-R	R22	7 1/2	230/208-3-60	94000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG094GPDE-R
H22G094GPEE-R	R22	7 1/2	460-3-60	94000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG094GPEE-R
H22G124GPDE-R	R22	10	230/208-3-60	120000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG124GPDE-R
H22G124GPEE-R	R22	10	460-3-60	120000	9.5" x 9.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG124GPEE-R
H22G184GPDF-R	R22	15	230/208-3-60	180000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	230V	115/230V	—	H2NG184GPDF-R
H22G184GPEF-R	R22	15	460-3-60	180000	10.5" x 10.5"	1 1/4 x 12	1 3/4 x 12	460V	115/230V	—	H2NG184GPEF-R
H22G244GPDF-R	R22	20	230/208-3-60	244000	10.5" x 10.5"	1 1/4 x 13	1 3/4 x 13	230V	115/230V	—	H2NG244GPDF-R
H22G244GPEF-R	R22	20	460-3-60	244000	10.5" x 10.5"	1 1/4 x 14	1 3/4 x 14	460V	115/230V	—	H2NG244GPEF-R
Bristol Dual Tandem H2DA Series											
H2DA923DBEL	R22	7 1/2	460-3-60	92000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—
H2DA923DBLL	R22	7 1/2	230/200-3-60	92000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—
H2DA114DBEL	R22	9	230/208-3-60	110000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—
H2DA114DBLL	R22	9	230/200-3-60	110000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—
H2DA124DBEL	R22	10	460-3-60	120000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—
H2DA124DBLL	R22	10	230/200-3-60	120000	Base plate	3/4 "T" @90° UP W/EXT	1 1/8 "T" @90° UP	23"-40W	—	—	—

Notes:

Please add an "-R" for Rotolock fittings or "-S" for Sweat fittings when ordering.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

Light Commercial Air Conditioning Scroll Compressors



Features

- Economical [Trane Direct Replacements](#)
- All SM115-SM185 compressors feature brazed connections and thermostat motor protection
- Q as the 7th digit denotes that the compressor has a bracket to enable tandem installation
- Mounting kit with grommets, bolts, nuts, sleeves and washers
- Initial oil charge
- Standard SM product includes sight glass along with oil pick up tube and Schrader for easy oil removal

Item ID	Refrig	Nominal H.P.	Volts-Phase-Hertz	Nominal Capacity	Discharge Size (In.)	Suction Size (In.)	Replaces	
							Trane	Copeland
Danfoss Performer Universal Scroll Compressors R22 With Upper Mounting Bracket								
SM115-3QAI	R22	9	208-230-3-60	115000	7/8	1 3/8 ODF	CSHA-093R-0*00 or OA CSHS-093R-0*00 or OA	ZR108KC-TF5 ZR11M3-TWC
SM115-4QAI	R22	9	460-3-60 400-3-50	115000	7/8	1 3/8 ODF	CSHA-093K-0*00 or OA CSHS-093K-0*00 or OA	ZR108KC-TFD ZR11M3-TWD
SM125-3QAI	R22	10	208-230-3-60	126000	7/8	1 3/8 ODF	CSHA-100R-0*00 or OA CSHS-100R-0*00 or OA	ZR125KC-TF5 ZR12M3-TWC
SM125-4QAI	R22	10	460-3-60 400-3-50	126000	7/8	1 3/8 ODF	CSHA-100K-0*00 or OA CSHS-100K-0*00 or OA	ZR125KC-TFD ZR12M3-TWD
SM160-3CBI	R22	13	208-230-3-60	163000	1 1/8	1 5/8 ODF	CSHA-125R-0*00 or OA	ZR16M3-TWC
SM160-4CBI	R22	13	460-3-60 400-3-50	163000	1 1/8	1 5/8 ODF	CSHA-125K-0*00 or OA	ZR16M3-TWD
SM175-3QAI	R22	14	208-230-3-60	174000	1 1/8	1 5/8 ODF	CSHA-140R-0*00 or OA CSHS-140R-0*00 or OA	—
SM175-4QAI	R22	14	460-3-60 400-3-50	174000	1 1/8	1 5/8 ODF	CSHA-140K-0*00 or OA CSHS-140K-0*00 or OA	—
SM185-3QAI	R22	15	208-230-3-60	185000	1 1/8	1 5/8 ODF	CSHA-150R-0*00 or OA CSHS-150R-0*00 or OA	ZR190KC-TW5 ZR19M3-TWC
SM185-4QAI	R22	15	460-3-60 400-3-50	185000	1 1/8	1 5/8 ODF	CSHA-150K-0*00 or OA CSHS-150K-0*00 or OA	ZR190KC-TWD ZR19M3-TWD

Made In USA

Item ID	Refrig	Nominal H.P.	Volts-Phase-Hertz	Nominal Capacity	Discharge Size (In.)	Suction Size (In.)	Replaces	
							Carlyle	Copeland
Danfoss Performer Scroll Compressors R22								
HLM072T1LP6	R22	6	208-230-1-60	72000	1/2 ODF	7/8 ODF	XRD720AA	ZR72** **
HLM072T2LC6	R22	6	208-230-3-60	72000	1/2 ODF	7/8 ODF	XRY722AE	ZR72** **
HLM072T4LC6	R22	6	460-3-60 400-3-50	72000	1/2 ODF	7/8 ODF	XRH722AE	ZR72** **
HLM081T2LC6	R22	7	208-230-3-60	81000	3/4 ODF	7/8 ODF	XRY812AE	ZR81** **
HLM081T4LC6	R22	7	460-3-60 400-3-50	81000	3/4 ODF	7/8 ODF	XRH812AE	ZR81** **
HCM094T2LC6	R22	8	208-230-3-60	94000	7/8 ODF	1 1/8 ODF	SRY942AE	ZR90** **
HCM094T4LC6	R22	8	460-3-60 400-3-50	94000	7/8 ODF	1 1/8 ODF	SRH942AE	ZR90** **
HCM109T4LC6	R22	9	460-3-60 400-3-50	109000	7/8 ODF	1 1/8 ODF	SRH109AE	ZR108** **
HCM120T4LC6	R22	10	460-3-60 400-3-50	120000	7/8 ODF	1 1/8 ODF	SRH120AE	ZR12** **
Danfoss Performer Scroll Compressors R410A								
HLJ083T2LC6 *	R410A	7	208-230/3/60	83000	1/2 ODF	7/8 ODF	XNY832AE	ZP83** **
HLJ083T4LC6 *	R410A	7	460-3-60 400-3-50	92000	1/2 ODF	7/8 ODF	XNH832AE	ZP83** **
HCJ090T2LC6 *	R410A	8	208-230/3/60	92000	7/8 ODF	1 1/8 ODF	SNY902AE	ZP90** **
HCJ090T4LC6 *	R410A	8	460-3-60 400-3-50	92000	7/8 ODF	1 1/8 ODF	SNY902AE	ZP90** **
HCJ105T2LC6 *	R410A	9	208-230/3/60	106800	7/8 ODF	1 1/8 ODF	SNY105AE	ZP103** **
HCJ105T4LC6 *	R410A	9	460-3-60 400-3-50	106800	7/8 ODF	1 1/8 ODF	SNY105AE	ZP103** **
HCJ120T2LC6 *	R410A	10	208-230/3/60	121500	7/8 ODF	1 1/8 ODF	SNY120AE	ZP120** **
HCJ120T4LC6 *	R410A	10	460-3-60 400-3-50	121500	7/8 ODF	1 1/8 ODF	SNY120AE	ZP120** **

Notes: * Please call for availability.

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Refrigeration Compressors



Bristol



Danfoss



Embraco

Features

- For low, medium and high temperature applications
- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- Triple duty compressors that may be used in low, medium and high temperature applications
- L1NB Series for ultra low temperature applications
- R92J Multi Refrigerant Series Direct replacements for Tecumseh, Copeland fractional and R Series compressors
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment manufactures

Item ID	Brand	Nominal H.P.	Volts-Phase-Hertz	LT @ -10°F	BTU			Foot	Discharge Size (In.)	Suction Size (In.)	Replaces	
					MT @ 20°F	HT @ 45°F	Tecumseh				Copeland	
R12 Blend												
EMI30ER1	Embraco	1/10	115-1-60	350	—	—	5.5" x 7"	0.256ID	0.256ID	AZB1335AXA	AFC1-0013-SAA	
EMI45ER1	Embraco	1/8	115-1-60	485	—	—	5.5" x 7"	0.256ID	0.256ID	AEA1343AXA	—	
FF8.5BK1	Embraco	1/5	115-1-60	850	1759	3080	5.5" x 7"	0.256ID	0.256ID	AEA3430AXA	—	
FF10BK1	Embraco	1/4	115-1-60	915	1908	3240	5.5" x 7"	0.256ID	0.256ID	AEA3430AXA	—	
FF11.5BK1	Embraco	1/4	115-1-60	1130	1893	4000	5.5" x 7"	0.256ID	0.256ID	—	—	
FFI12BX1	Embraco	1/3	115-1-60	1350	2142	4838	5.5" x 7"	0.256ID	0.256ID	AEA4440AXA	ARE41C3-IAA (HST) JFB1-0033-IAA (HST)	
L1NB262EBAB	Bristol	—	115-1-60	2400	—	—	4.8" x 8"	3/8 E	5/8 E	—	—	
L1NB262EBCB	Bristol	—	230/208-1-60	2400	—	—	4.8" x 8"	3/8 E	5/8 E	—	—	
R134A												
EMIS30HHR1	Embraco	1/10	115-1-60	340	950	1480	4" x 6.5"	0.256ID	0.256ID	AEA0335YXA	—	
EM45HHR1	Embraco	1/8	115-1-60	420	1053	1775	4" x 6.69"	0.256ID	0.256ID	AZA0350YXA	—	
EMI55HER1	Embraco	1/6	115-1-60	510	—	—	4" x 6.69"	0.256ID	0.256ID	THG1358YXA	—	
FF7.5HBK1	Embraco	1/5	115-1-60	630	1622	2760	4" x 6.69"	0.256ID	0.256ID	AEA1360YXA AEA3425YXA	—	
FF8.5HBK1	Embraco	1/4	115-1-60	740	1745	3135	4" x 6.69"	0.256ID	0.256ID	AEA3430YXA	AF05C1E-SAA (LST)	
FF8.5HBK1C	Embraco	1/4	115-1-60	740	1745	3135	4" x 6.69"	0.256ID	0.256ID	AEA4430YXA	AFE07C3E-IAA	
FF10HBK1	Embraco	1/4+	115-1-60	840	1995	3530	4" x 6.69"	0.256ID	0.256ID	—	—	
FFI10HBX1	Embraco	1/3	115-1-60	1065	2038	4400	4" x 6.69"	0.256ID	0.256ID	AEA4440YXA AEA3440YXA	ARE37C3E	
FFI12HBX1	Embraco	1/3+	115-1-60	1190	2886	5300	4" x 6.69"	0.256ID	0.256ID	AEA4448YXA	ARE41C3E-IAA AFT12C1E-IAA	
NE2134Z1	Embraco	1/2	115-1-60	1452	—	—	4" x 6.69"	0.25ID	0.38ID	AEA2413YXA	AFT12C3E-IAA-301	
T6215Z1	Embraco	1/2+	115-1-60	—	3705	6626	4.5" x 7"	0.25ID	0.38ID	AKA4460YXA	RRT62C1-IAA	
T6217Z1 (NT6217Z1)	Embraco	3/4	115-1-60	—	3909	7638	4.5" x 7"	0.25ID	—	AKA4476YXA	ART64C1E-IAA	
T6217Z2 (NT6217Z2)	Embraco	3/4	230-1-60	—	3909	7490	4.5" x 7"	0.25ID	0.38ID	AKA4460YXD	ART64C1E-IAV	
NJ6220Z1	Embraco	1	115-1-60	—	—	10169	4.8" x 9.25"	0.25ID	0.38ID	—	AR84C1E-IAA	
NJ6220Z2	Embraco	1	230-1-60	—	—	10169	4.8" x 9.25"	0.25ID	0.38ID	—	AR84C2E-IAV	
NJ6226Z2	Embraco	1 1/4	230-1-60	—	6583	11130	4.8" x 9.25"	0.25ID	0.38ID	AJ4512YXD	ARJ11K2E-CAV	

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Refrigeration Compressors



Bristol



Danfoss



Embraco

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					MT @ 20°F	HT @ 45°F				Tecumseh	Copeland
404A											
TF4CLX	Danfoss	1/5	115-1-60	776	1603	—	4" x 6.7"	0.205ID	0.25ID	—	—
TFS4.5CLX	Danfoss	1/4	115-1-60	1010	—	—	4" x 6.7"	0.205ID	0.25ID	—	—
NEK2121GK1	Embraco	1/3	115-1-60	1212	—	—	4" x 6.7"	0.25ID	0.38ID	AEA2380ZXA	AFE08C4E-IAA
NF5.5CLX	Danfoss	1/3	115-1-60	1376	2723	—	4" x 6.7"	0.25ID	0.32ID	AEA9415ZXA AEA9422ZXA	—
NEK2125GK1	Embraco	1/3	115-1-60	1455	—	—	4" x 6.7"	0.25ID	0.38ID	AEA2411ZXA	AFE11C4E-IAA
NF7CLX	Danfoss	1/3+	115-1-60	1716	3451	—	4" x 6.7"	0.25ID	0.32ID	AEA2411ZXA AKA9427ZXA	—
NEK2134GK1	Embraco	1/2	115-1-60	1947	—	—	4" x 6.7"	0.25ID	0.38ID	AJA2419ZXA	AFE13C4E-IAA
NEK2150GK1	Embraco	1/2+	115-1-60	2493	—	—	4" x 6.7"	0.25ID	0.38ID	AJA2425ZXA	AFE17C4E-IAA
SC12MLX	Danfoss	3/4	115-1-60	—	4174	—	4" x 6.7"	0.25ID	0.32ID	AKA9438ZXA	AST40C1E-IAA
SC12CLX.2	Danfoss	3/4	115-1-60	2706	—	—	4" x 6.7"	0.25ID	0.32ID	AJA2419ZXA	AFT1840C1E-IAA
T2168GK1	Embraco	3/4	115-1-60	3008	—	—	4" x 6.7"	0.25ID	0.38ID	—	—
T2168GK2	Embraco	3/4	230-1-60	3008	—	—	4" x 6.7"	0.25ID	0.38ID	—	—
SC15CLX.2-115VT	Danfoss	3/4	115-1-60	3375	—	—	4" x 6.7"	0.25ID	0.38ID	AJA2425ZXA	AFT22C1E-IAA
SC18CLX.2-115VT	Danfoss	1	115-1-60	3867	—	—	4" x 6.7"	0.25ID	0.38ID	AKA9455ZXA AJA2433ZXA	AFT26C1E-CAV
SC18MLX-115VT	Danfoss	1	115-1-60	—	4845	—	4" x 6.7"	0.25ID	0.38ID	AKA9462ZXA	AST54C1E-CAV
T2180GK2	Embraco	1	230-1-60	3872	—	—	4.5" x 7"	0.25ID	0.38ID	AJA2425ZXA	AFT296C1E-CFA
NJ2192GK2	Embraco	1 1/4	230-1-60	4502	—	—	4.8" x 9.25"	0.25ID	0.38ID	AJB2444ZXD	AFJ31C2E-CFV
NJ2212GK2	Embraco	1 1/2	230-1-60	5911	—	—	4.8" x 9.25"	0.25ID	0.38ID	AWA2460ZXN	AFJ37C1E-CFV RFT42C1E-PFV
L63A113BBCA	Bristol	—	230/208-1-60	10600	—	—	7.5" x 7.5"	1/2 E	3/4 E	—	—
L63A113DBLA	Bristol	—	230/200-3-60	10600	—	—	7.5" x 7.5"	1/2 E	3/4 E	—	—
L63A183BBCA	Bristol	—	230/208-1-60	18000	—	—	7.5" x 7.5"	1/2 E	3/4 E	—	—
L63A183DBDA	Bristol	—	230/208-3-60	18000	—	—	7.5" x 7.5"	1/2 E	3/4 E	—	—
R22, R404A, R407C											
R92J223ABCA	Bristol	—	230/208-1-60	23634	10780	20300	7.5" x 7.5"	1/2 E	3/4 E	—	—
R92J343DBVA	Bristol	—	460/380-3-60	34100	17400	33300	7.5" x 7.5"	1/2 E	3/4 E	—	—
R92J433ABCA	Bristol	—	230/208-1-60	43640	23100	39700	7.5" x 7.5"	1/2 E	3/4 E	—	—
R92J433DBLA	Bristol	—	230/200-3-60	43270	23300	40100	7.5" x 7.5"	1/2 E	3/4 E	—	—
R92J433DBVA	Bristol	—	460/380-3-60	42900	23200	39700	7.5" x 7.5"	1/2 E	3/4 E	—	—

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Refrigeration Fractional Condensing Units



Features

- Broad range of fractional condensing units from 1/4 HP to 1 HP
- Designed for specific applications
- High ambient coil designs
- Quality components selected for longer life and reduced warranty costs
- Please call for availability

Item ID	Brand	Nominal H.P.	Volts-Phase-Hertz	LT @ -10°F	BTU MT @ 10°F	HT @ 45°F	Version Includes	Replaces	
								Tecumseh	Copeland
R134A									
UF10HBX1	Embraco	1/4	115-1-60	840	1995	3530	Power cord	AEA4430	M2FH-0026
UF112HBX1-R	Embraco	1/3	115-1-60	1190	2886	5300	Power cord, Receiver	AEA4440YXAXC	M2FH-A033
UCGC0017RWA000B	Danfoss	1/6	115-1-60	—	1007	1492	Power cord	AEA3414	M2FH0017
UCGC0020RWA000B	Danfoss	1/5	115-1-60	—	1860	2699	Power cord	AEA3417	M2FH0020
UCGC0025RWB000B	Danfoss	1/4	115-1-60	—	2085	3029	Power cord, Receiver	AEA4430	M2FH0026
HCGC0033RWC000B	Danfoss	1/3	115-1-60	—	2717	3986	BX, Receiver	—	—
UT6215ZC1-R	Embraco	1/2	115-1-60	—	3705	6626	BX, Receiver	AKA4460YXAXC	M2FH-0050
UT6217Z1-R	Embraco	3/4	115-1-60	—	3909	7490	BX, Receiver	AKA7437YXAXC	—
UCGC0050RWC000B	Danfoss	1/2	115-1-60	—	4264	6249	BX, Receiver	AKA4460	M2FH0049
HCGC0055RWC000B	Danfoss	5/8	115-1-60	—	5009	7374	BX, Receiver	AKA4476	M2FH0056
HCGC0075RWC000B	Danfoss	3/4	115-1-60	—	7325	11052	BX, Receiver	AJA4492	FTAHA074
HCGC0075RWC000N	Danfoss	3/4	230-1-60	—	7325	11052	BX, Receiver	AJA4492	FTAHA074
R22									
HCMC0025RWB000B	Danfoss	1/4	115-1-60	—	3009	3029	Power cord, Receiver	AEA9417	MMFH0022
HCMC0033RWC000B	Danfoss	1/3	115-1-60	—	3509	3986	BX, receiver	AKA9433	MCDH0036
HCMC0050RWC000B	Danfoss	1/2	115-1-60	—	5044	6249	BX, receiver	AKA9446	MCFH0049
HCMC0075UWC000N	Danfoss	3/4	230-1-60	—	6600	11052	BX, receiver	—	—
HCMC0100UWD000N	Danfoss	1	230-1-60	—	7210	13417	BX, receiver, low pressure control	—	—
R404A									
UCHC0025RWA000B	Danfoss	1/4	115-1-60	1303	2634	1635	Power Cord	AEA9422	M4FH0025
UCHC0033RWC000B	Danfoss	1/3	115-1-60	1577	3188	4340	BX, Receiver	AKA9429	M4FHA036
UCHC0050RWC000B	Danfoss	1/2	115-1-60	1959	4279	6030	BX, Receiver	AKA9440	M4FH0050
UCHC0050RWC000N	Danfoss	1/2	230-1-60	1959	4279	6030	BX, Receiver	AKA9440	M4FH0050
UNE2134GKC1-R	Embraco	1/2	115-1-60	1947	—	—	BX, receiver	AJA2429	VJAL050Z
HCHC0060RWC000N	Danfoss	5/8	230-1-60	—	5427	7634	BX, receiver	—	FJAFA056
LCHC0060RWC000B	Danfoss	5/8	115-1-60	2941	—	—	BX, receiver	AJA2429	M4FL0051
LCHC0060RWC000N	Danfoss	5/8	230-1-60	2941	—	—	BX, receiver	AJA2429	M4FL0051
UT2178GKC1-R	Embraco	3/4	115-1-60	3112	—	—	BX, receiver	—	M4FL0067
UT2178GKC2-R	Embraco	3/4	230-1-60	3112	—	—	BX, receiver	—	M4FL0067
HCHC0075UWC000B	Danfoss	3/4	115-1-60	—	7693	10759	BX, Receiver	AJA7465	FTAHA0074
HCHC0075UWC000N	Danfoss	3/4	230-1-60	—	7693	10759	BX, Receiver	AJA7465	FTAHA0074
LCHC0075RWC000N	Danfoss	3/4+	230-1-60	3460	—	—	BX, receiver	—	M4FL0067
HCHC0100UWD000N	Danfoss	1	230-1-60	—	9042	11829	BX, receiver, low pressure control	—	—
LCHC0100RWD000N	Danfoss	1	230-1-60	5329	—	—	BX, receiver, low pressure control	AWA2448	FJALA100

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Refrigeration Integral Condensing Units

Features

- Broad range of fractional condensing units from 1 1/2 HP to 13 1/2 HP
- Designed for specific applications
- High ambient coil designs
- Quality components selected for longer life and reduced warranty costs
- WF version includes: BX, receiver, dual pressure control, fan cycling control, dual fan units larger than 3 HP use KPU fan cycling control, filter drier, sight glass, solenoid valve with coil.
- Please call for availability



Item ID	Brand	Nominal H.P.	Volts-Phase-Hertz	BTU			Version Includes	Replaces	
				LT @ -10°F	MT @ 25°F	HT @ 45°F		Tecumseh	Copeland
R404A									
UNJ2212GK1-R	Embraco	1 1/2	115-1-60	6384	—	—	BX, receiver	AWA2464ZX	—
UNJ2212GK2-R	Embraco	1 1/2	230-1-60	6384	—	—	BX, receiver	AWA2464ZX	—
LCZC0151UWF300N	Danfoss	1 1/2	230-1-60	7759	—	—	WF	—	—
HCZC0150UWF300N	Danfoss	1 1/2	230-1-60	—	11535	17484	See Features WF	AWA7512	FJAMA125 FJAMA126 FJAMA150
HCZC0150UWF300Q	Danfoss	1 1/2	208-230-3-60Fan(s) 230-1-60	—	11535	17484	WF See Features	AWA7512	FJAMA125 FJAMA126 FJAMA150
LCZC0201UWF300N	Danfoss	2	230-1-60	11021	—	—	WF See Features	—	—
LCZC0201UWF300Q	Danfoss	2	208-230-3-60Fan(s) 230-1-60	11021	—	—	WF See Features	—	—
HCZC0200UWF300N	Danfoss	2	230-1-60	—	16344	24528	WF See Features	AWA7515	VJAF017H FJAMA200
HCZC0200UWF300Q	Danfoss	2	208-230-3-60Fan(s) 230-1-60	—	16344	24528	WF See Features	AWA7515	VJAF017H FJAMA200
HCZC0250UWF300N	Danfoss	2 1/2	230-1-60	—	19974	28532	WF See Features	—	—
HCZC0250UWF300Q	Danfoss	2 1/2	208-230-3-60Fan(s) 230-1-60	—	28070	28532	WF See Features	—	—
HCZC0275UWF300N	Danfoss	2 3/4	230-1-60	—	23738	33558	WF See Features	—	VJAF025H
HCZC0275UWF300Q	Danfoss	2 3/4	208-230-3-60Fan(s) 230-1-60	—	23738	33558	WF See Features	—	VJAF025H
LCZC0301UWF300N	Danfoss	3	230-1-60	16239	—	—	WF See Features	—	—
LCZC0301UWF300Q	Danfoss	3	208-230-3-60Fan(s) 230-1-60	16239	—	—	WF See Features	—	—
HCZC0300UWF300N	Danfoss	3	230-1-60	—	27206	38283	WF See Features	AVA7523	FJAMA300 VJAF030H FJAMA325
HCZC0300UWF300Q	Danfoss	3	208-230-3-60Fan(s) 230-1-60	—	27206	38283	WF See Features	AVA7523	FJAMA300 VJAF030H FJAMA325
LGZC0401UWF300N	Danfoss	4	230-1-60	20792	—	—	WF See Features	—	—
LGZC0401UWF300Q	Danfoss	4	208-230-3-60Fan(s) 230-1-60	20792	—	—	WF See Features	—	—
HGZC0400UWF300N	Danfoss	4	230-1-60	—	36521	53103	WF See Features	—	VJAF035Z* VJAF035H
HGZC0400UWF300Q	Danfoss	4	208-230-3-60Fan(s) 230-1-60	—	36521	53103	WF See Features	—	VJAF035Z* VJAF035H
HGZC0500UWF300N	Danfoss	5	230-1-60	—	45339	64640	WF See Features	—	FJAMB400 VJAF040Z* VJAF040H FJAMB500 VJAF050Z*
HGZC0500UWF300Q	Danfoss	5	208-230-3-60Fan(s) 230-1-60	—	45339	64640	WF See Features	—	FJAMB400 VJAF040Z* VJAF040H FJAMB500 VJAF050Z*

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Packard is a market leader as a **one-stop source** for compressors and line components.

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Bristol Compressor Installation Kits



VIEW COMPLETE BOM

Features

- Everything you need to install Bristol compressors in one handy box
- Reduce and organize your inventory at one time
- High quality components for superior performance and reduced call backs
- Each Kit Contains three fan capacitors, one compressor (hermetic) capacitor, contactor, filter drier, acid test, wiring harness and assorted copper fittings

Item ID	COMPKIT1
Tons	1 1/2
For Use With Bristol Compressor Model #	H2EB18SABCA H2EB18SABCB H2EB223ABCA

Item ID	COMPKIT6
Tons	2 1/2 to 4 1/2
For Use With Bristol Compressor Model #	H2EB283ABCB H22J38BABCA H2EB28SABCA H22A543ABCA H22J36BABCA H2EB32SABCA

Item ID	COMPKIT2
Tons	2
For Use With Bristol Compressor Model #	H22J22BABCA H2EB24SABCA H2EB24SABCB

Item ID	COMPKIT7
Tons	3 1/2
For Use With Bristol Compressor Model #	H22J41BABCA

Item ID	COMPKIT3
Tons	1 1/4 to 1 1/2
For Use With Bristol Compressor Model #	H22J15BABCA H22J18BABCA

Item ID	COMPKIT8
Tons	4
For Use With Bristol Compressor Model #	H22J44BABCA

Item ID	COMPKIT4
Tons	2 to 2 1/2
For Use With Bristol Compressor Model #	H22J25BABCA H22J29BABCA

Item ID	COMPKIT9
Tons	5
For Use With Bristol Compressor Model #	H22A583ABCA H22A623ABCA

Item ID	COMPKIT5
Tons	3
For Use With Bristol Compressor Model #	H22A503ABCA H22J33BABCA

Item ID	COMPKIT10
Tons	3 PHASE KIT
For Use With Bristol Compressor Model #	H22J293DBVA H22J443DBEA H22J293DBLA H22J443DBFA H22J333DBVA H22A543DBFA H22J333DBLA H22A543DBLA H22J363DBVA H22A543DBEA H22J363DBLA H22A563DBLA H22J383DBLA H22A623DBEA H22J383DBVA H22A623DBLA H22J413DBLA H22A623DBFA H22J413DBEA H22A723DBLA H22J443DBDA H22A723DBVA

Danfoss KPU Pressure And Temperature Controls

Features

- Designed with contractor input
- Fingertip reset
- Easy visibility high contrast scale
- Fail-safe bellows available
- Durable, rust proof plastic cover
- Universal mounting bracket
- Snap action bellows
- Large, removable contact window
- Large connector area
- Easy, direct replacements for most competitor controls



Item ID	Pressure Range PSIG	Diff. PSIG	Cap Tube Length	Contact Type	Reset
Danfoss Low Pressure Control					
060-5233	6 to 108	10 to 60	36"	SPDT	Auto
060-5235	6 to 73	10 to 30	36"	SPST	Auto
Danfoss Fan Cycling Control					
060-5242	100 to 465	25 to 85	36"	SPST	Auto
060-5243	100 to 600	58 to 145	none	SPDT	Auto
060-5245	100 to 600	58 to 145	36"	SPDT	Auto
Danfoss High Pressure Control					
060-5246	100 to 600	60 fixed	36"	SPDT	Manual

Item ID	Low Pressure			High Pressure			Cap Tube Length	Contact Type
	Range	Diff	Reset	Range	Diff	Reset		
Danfoss Dual Pressure Control								
060-5248	6 to 108	10 to 60	Auto	100 to 465	60 fixed	Auto	36"	SPST
060-5249	6 to 108	10 to 60	Auto	100 to 465	60 fixed	Manual	—	SPST
060-5250	6 to 108	10 to 60	Auto	100 to 465	60 fixed	Manual	36"	SPST
060-5253	6 to 108	10 to 60	Convertible	100 to 600	60 fixed	Convertible	—	SPDT
060-5254	6 to 108	10 to 60	Convertible	100 to 600	60 fixed	Convertible	36"	SPDT

Item ID	Sensor type	Reset Function	Range	Differential	
				At lowest setting	At highest setting
Danfoss Temperature Control					
060L5206	Room Sensor	Auto	-20 to 60	8 to 40	2.5 to 13
060L5208	Remote Bulb, 80 in Cap Tube	Auto	-15 to 60	6 to 18	5 to 50

Packard Pressure Controls

Features

- 18 inch leads
- Hermetically sealed
- Tamper proof construction
- Direct mounting on tubing
- For use in residential A/C and commercial refrigeration
- 100% tested
- Contacts rated at 6 amps, 24-240 volts
- UL and CSA recognized



Low Pressure Controls

Item ID	Open PSI	Close PSI	Tolerance	Replaces
Packard				
PLP0520	5	20	± 5 PSI	SLP0520
PLP1025	10	25	± 5 PSI	SLP1025
PLP1535	15	35	± 5 PSI	SLP1535
PLP2550	25	50	± 5 PSI	SLP2550
PLP2565	25	65	± 5 PSI	SLP2565
PLP2580	25	80	± 5 PSI	SLP2580
PLP4080	40	80	± 5 PSI	SLP4080
PLP5090	50	90	± 5 PSI	SLP5090

Item ID	Open PSI	Tolerance	Replaces
Packard Manual High Pressure Control			
PMR410	410	± 15 PSI	SMR410

High Pressure Controls

Item ID	Open PSI	Close PSI	Tolerance	Replaces
Packard				
PHP200150	200	150	± 15 PSI	SHP200150
PHP250150	250	150	± 15 PSI	SHP250150
PHP275195	275	195	± 15 PSI	SHP275195
PHP300200	300	200	± 15 PSI	SHP300200
PHP350250	350	250	± 15 PSI	SHP350250
PHP375265	375	265	± 15 PSI	SHP375265
PHP400200	400	200	± 15 PSI	SHP400200
PHP400280	400	280	± 15 PSI	SHP400280
PHP400300	400	300	± 15 PSI	SHP400300
PHP425300	425	300	± 15 PSI	SHP425300
PHP450250	450	250	± 15 PSI	SHP450250
PHP600475	600	475	± 15 PSI	33361

Danfoss EVR, General Purpose Solenoid Valves



Features

- Danfoss solenoid valves type EVR are general purpose valves designed for use in refrigeration, freezer, and air conditioning systems.
- Valve body and coil ordered separately.

Item ID	Item ID	Item ID	R22	Connection	Port Size
Manual Stem	Not Manual Stem	Service Kit	Cap	(In.)	
Danfoss					
	032F7105	032F0181	ERV 3	2.03	1/4 1/8
032F7144	032F1162	032F8166	EVR 6	5.83	1/2 15/64
032F7149		032F0185	EVR 10		1/4 3/8

Item ID	Coil (VAC)
018F7682	115
018F7681	220
018F7683	24

Item ID	Coil and Opener
018F0091	Magnetic Solenoid Opener

Danfoss EVU, Specialty Solenoid Valves



COMPACT & QUIETER

Features

- Danfoss EVU solenoid valves are designed to fit into compact refrigeration systems. Their lightweight, compact design includes bimetal connections to permit fast, easy soldering without the need for wet wrapping.
- Valve body and coil ordered separately.

Item ID	Body	Connection (In.)	CV Value
Danfoss			
032F5024	EVU 3	1/4	0.35
032F5026	EVU 3	3/8	0.35
032F5049	EVU 6	1/2	0.93

Item ID	Coil (VAC)
042N4233	115
042N4230	220
042N8236	24

Item ID	Coil and Opener
018F0091	Magnetic Solenoid Opener

Danfoss Service Thermostats

Features

- Danfoss' eight service thermostats for all types of refrigeration and freezing applications.
- The thermostats and all accessories are conveniently packaged with electrical diagrams and drawings.
- Danfoss thermostats may be used on all refrigerating and freezing applications, independent of the make of the original thermostat.



Item ID	Description	Replaces (Ranco)
Danfoss		
077B7001	Refrigerators	K50QP1125-001
077B7002	Refrigerators with pushbutton defrost	K60 F25-107
077B7003	Refrigerators with automatic defrost	K59 A12-1560
077B7004	Absorption refrigerators	K50-P1174
077B7005	Ice-cream cabinets and freezers without signal	K50QP-1126-001
077B7006	Freezers with active signal	K56
077B7007	Freezers with passive signal	K56
077B7008	Bottle and liquid coolers	A12-701 K-3001

Danfoss TR6 Air Conditioning And Heat Pump TXV Kits

Features

- Complete with valve, bulb strap and instructions
- Energy efficiency upgrade
- Anti-hunt bulb charge
- Contractor friendly bulb strap
- Durable stainless steel power element and capillary tube
- Universal replacement including Aeroquip and Chatleff fittings
- Ideal to optimize performance of mismatched system
- Internal check valve permits use in heat pump systems



Item ID	Refrig	System Capacity (Tons)	Equal. Type	Inlet Conn.	Outlet Conn.	Temp. Range	Fittings Included
Danfoss							
067L5955	R410A	1.5-3	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5956	R410A	4	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5957	R410A	5	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5856	R22	1.5-2	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5857	R22	2.5-3	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5858	R22	3.4-4	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff
067L5859	R22	5-6	External	3/8 ODF	3/8 ODF	AC	Aeroquip, Chatleff

Danfoss TUA/TUAE Series Expansion Valve Bodies

Features

- Laser engraved identification
- Contractor friendly bulb strap
- Easy to access screen
- Fast and easy to install – no wet wrap required
- Durable stainless steel power element and capillary tube
- Replaceable orifice designed for refrigeration applications up to 4 1/2 tons
- Compact, light weight design for rapid installation in small spaces
- Create your own functional valve simply by selecting the valve and pairing with orifice



Item ID	Description	Refrig	Connection	Equalization	External Equalization
Danfoss					
068U2205	TUA	R134a	3/8 X 1/2	Internal	—
068U2207	TUAE	R134a	3/8 X 1/2	External	1/4
068U2235	TUA	R22	3/8 X 1/2	Internal	—
068U2237	TUAE	R22	3/8 X 1/2	External	1/4
068U2285	TUA	R404A/R507	3/8 X 1/2	Internal	—
068U2287	TUAE	R404A/R507	3/8 X 1/2	External	1/4

Danfoss TUA/TUAE Refrigeration TXV Orifices

Features

- Orifices for use with Danfoss TUA/TUAE type TXVs
- To select, use capacity required at appropriate evaporator temperature for system refrigerant
- To cross to competitor valve, use nominal capacity as found in model number and match with 40 degree evap temp



Item ID	R134a Capacity@20F	R134a Capacity@40F	R22 Capacity@0F	R22 Capacity@20F	R22 Capacity@40F	R404A/R507 Capacity@-20F	R404A/R507 Capacity@0F	R404A/R507 Capacity@20F	R404A/R507 Capacity@40F
Danfoss									
068U1030	0.12	0.18	0.15	0.17	0.18	0.09	0.11	0.12	0.13
068U1031	0.17	0.20	0.20	0.24	0.26	0.11	0.16	0.18	0.20
068U1032	0.22	0.25	0.24	0.30	0.36	0.13	0.18	0.24	0.28
068U1033	0.31	0.39	0.36	0.42	0.50	0.18	0.25	0.33	0.39
068U1034	0.45	0.58	0.49	0.63	0.75	0.27	0.37	0.49	0.59
068U1035	0.61	0.77	0.66	0.84	0.89	0.36	0.50	0.55	0.79
068U1036	0.91	1.16	0.99	1.25	1.50	0.54	0.75	0.98	1.19
068U1037	1.22	1.56	1.31	1.65	2.00	0.73	1.00	1.31	1.58
068U1038	1.82	2.31	1.98	2.52	2.98	1.10	1.51	1.97	2.35
068U1039	2.69	3.45	2.94	3.74	4.45	1.61	2.22	2.91	3.53

Parker Expansion Valves And Outlet Fitting Adapters



Features

- Balanced port valve is designed specifically for air conditioning and heat pumps
- Used in air or water source systems
- Stainless steel power element
- External equalizer HCAE series has a built-in check valve
- TXVKIT for use with 1 1/2 to 5 ton air conditioning and heat pumps, includes two R22 and two R410A expansion valves and various outlet fitting adapters to accommodate use with sweat or OEM type threaded connections

Item ID	Description
Parker Expansion Valves	
TXVKIT	TXV Kit - Heat Pumps and Air Conditioning ; Includes all expansion valves below
HCAE3VX100	R22 TXV Valve 1 1/2-3 Ton Capacity
HCAE5VX100	R22 TXV Valve 3-5 Ton Capacity
HCAE3VX100A	R22 TXV Valve 1 1/2-3 Ton Capacity
HCAE3ZX200	R410a TXV Valve 1 1/2-3 Ton Capacity
HCAE5ZX200	R410a TXV Valve 3-5 Ton Capacity
HCAE5ZX200A	R410a TXV Valve 3-5 Ton Capacity

Item ID	Description
Parker Expansion Valve Outlet Fitting Adapters	
183372	Expansion Valve Outlet Fitting Adapters
183373	Expansion Valve Outlet Fitting Adapters
183374	Expansion Valve Outlet Fitting Adapters
183375	Expansion Valve Outlet Fitting Adapters
183376	Expansion Valve Outlet Fitting Adapters

Danfoss Ball Valves



Maximum flow in open position, maximum tightness in closed position

GBC valves are used in liquid, suction and hot gas lines in all refrigeration and air-conditioning systems with fluorinated refrigerants. Danfoss GBC ball valves are manually operated shut-off valves suitable for bi-directional flow. The design is based on years of experience. The valve concept includes a high precision laser welding ensuring both a strong and a light slim line valve body design. The design, weld, and choice of the sealing material enables the ball valves to meet the most demanding requirements, for example, the high working pressure when operating with R410A.

Features

- UL, CUL and CSA listed
- Seal cap with retaining strap
- Pressure rating approved for R410A
- Precision laser welded
- Rotation stops and position indicator
- Full flow with minimum pressure drop
- Panel mounting holes
- Bi-directional flow – valve orientation is unimportant
- Slimline design ensures easy operational handling
- Burst proof spindle design prevents liquid from being trapped internally
- Valve seat of teflon to secure maximum tightness and a long lifetime
- Access port with schrader valve saves money if service of the system is necessary

Item ID	Alternate Code	Solder ODF connection (in)	C v value * (gal/min)	Weight (lbs)	Max. working pressure (psig)	Max. test pressure (psig)
Danfoss						
009G8050	GBC6S	1/4	9	0.52	650	940
009G8051	GBC10S	3/8	25	0.52	650	940
009G8052	GBC12S	1/2	47	0.54	650	940
009G8053	GBC16S	5/8	62	0.54	650	940
009G8054	GBC18S	3/4	90	0.86	650	940
009G8065	GBC22S	7/8	124	0.94	650	940
009G8066	GBC28S	1 1/8	229	1.96	650	940
009G8067	GBC35S	1 3/8	356	3.09	650	940
009G8068	GBC42S	1 5/8	533	4.91	650	940
009G8059	GBC54S	2 1/8	990	9.32	650	940
009G8069	GBC67S	2 5/8	1365	12.46	650	725

Note: *: CDF calculated values (Computational Fluid Dynamics)

Danfoss Liquid Line Filter Driers

Features

- Solid core design
- Mixture of molecular sieve and activated alumina ensures excellent absorption of moisture and acid
- Greater protection against corrosion
- Industry leading moisture capacity
- Retains particles larger than 25 microns
- Solid copper connections for easy installation



GREATER PROTECTION AGAINST CORROSION

Item ID	Description	Conn. Size	Cubic Inches	Conn. Type	Length	R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
Danfoss								
023Z5075	DCL032	1/4" SAE	3	Flare	4.33	2.0	2.0	1.4
023Z5013	DCL032S	1/4" ODF	3	Sweat	3.86	2.0	2.0	1.4
023Z5002	DCL052	1/4" SAE	5	Flare	4.69	2.0	2.3	1.4
023Z5018	DCL052S	1/4" ODF	5	Sweat	4.21	2.0	2.3	1.4
023Z5019	DCL053S	3/8" ODF	5	Sweat	4.45	5.1	5.4	4.0
023Z5023	DCL083S	3/8" ODF	8	Sweat	5.47	5.4	6.0	4.0
023Z5008	DCL163	3/8" SAE	16	Flare	6.57	6.3	6.9	4.6
023Z5029	DCL163S	3/8" ODF	16	Sweat	5.83	6.3	6.9	4.6
023Z5032	DCL164S	1/2" ODF	16	Sweat	5.98	8.6	9.4	6.3
023Z5033	DCL165S	1/2" ODF	16	Sweat	6.22	12.3	13.4	8.6
023Z0030	DCL303S	3/8" ODF	30	Sweat	8.82	6.0	6.6	4.3
023Z0031	DCL304S	1/2" ODF	30	Sweat	8.98	8.8	9.7	6.3
023Z0032	DCL305S	5/8" ODF	30	Sweat	9.21	12.6	14.0	9.4

Danfoss Suction Line Driers

Features

- Solid core design with mixture of activated alumina and molecular sieve maximizes acid and moisture absorption
- Contains two schrader valves for measuring pressure drop across the drier



Item ID	Description	Conn. Size	Cubic Inches	Conn. Type	Length	R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
Danfoss								
023Z1011	DAS166SVV	3/4" ODF	16	Sweat	6.7	3.4	5.7	4.9
023Z1012	DAS167SVV	7/8" ODF	16	Sweat	6.8	3.9	6.3	5.4

Danfoss Heat Pump Biflow Filter Driers

Features

- Solid core design
- Check valves are insensitive to dirt and gives minimum restriction, regardless of flow direction
- Industry leading moisture capacity
- No dirt released in reverse flow
- Retains particles larger than 25 microns



Item ID	Description	Conn. Size	Cubic Inches	Length	R12/R134a Capacity	R22/R410A Capacity	R404A/R507 Capacity
Danfoss							
023Z1433	DCB083S	3/8" ODF	8	5.6	2.1	2.3	1.5
023Z1432	DCB084S	1/2" ODF	8	5.7	2.4	2.6	1.7
023Z1437	DCB163S	3/8" ODF	16	5.9	5.1	5.7	3.7
023Z1436	DCB164S	1/2" ODF	16	6.1	8.0	9.1	5.7

Parker Air Conditioning And Refrigeration Driers

All Liquid Line, Bi-Flow and Suction Line Filter Driers are R410A rated.

Features

- Liquid Line Filter Driers from 3/8 ODF to 7/8 ODF
- BI-Flow Filter Driers from 1/2 ODF to 3/8 ODF
- Suctions Line Filter Driers from 1/2 ODF to 7/8 ODF
- Maximum filtration capability for today's systems
- Compatible with mineral oil, alkybenzene and POE lubricants

Item ID	Description
Parker Liquid Line Filter Driers	
SS053S	Liquid Line 3/8 ODF
SS083S	Liquid Line 3/8 ODF
SS163S	Liquid Line 3/8 ODF
083SXF	Liquid Line R410a - 3/8 ODF
303SXF	Liquid Line R410a - 3/8 ODF
163SXF	Liquid Line R410a -3/8 ODF
084S	Liquid Line 1/2 ODF
164S	Liquid Line 1/2 ODF
304S	Liquid Line 1/2 ODF
414S	Liquid Line 1/2 ODF
084	Liquid Line 1/2 SAE Male
164	Liquid Line 1/2 SAE Male
304	Liquid Line 1/2 SAE Male
414	Liquid Line 1/2 SAE Male
032S	Liquid Line 1/4 ODF
052S	Liquid Line 1/4 ODF
082S	Liquid Line 1/4 ODF
162S	Liquid Line 1/4 ODF
032MF	Liquid Line 1/4 SAE FxM
032	Liquid Line 1/4 SAE Male
052	Liquid Line 1/4 SAE Male
082	Liquid Line 1/4 SAE Male
162	Liquid Line 1/4 SAE Male
759S	Liquid Line 1 1/8 ODF
756S	Liquid Line 3/4 ODF
053S	Liquid Line 3/8 ODF
083S	Liquid Line 3/8 ODF
163S	Liquid Line 3/8 ODF
303S	Liquid Line 3/8 ODF
053	Liquid Line 3/8 SAE Male
083	Liquid Line 3/8 SAE Male
163	Liquid Line 3/8 SAE Male
303	Liquid Line 3/8 SAE Male
413	Liquid Line 3/8 SAE Male
0525S	Liquid Line 5/16 ODF
0825S	Liquid Line 5/16 ODF
1625S	Liquid Line 5/16 ODF
165S	Liquid Line 5/8 ODF
305S	Liquid Line 5/8 ODF
415S	Liquid Line 5/8 ODF
165	Liquid Line 5/8 SAE Male
305	Liquid Line 5/8 SAE Male
415	Liquid Line 5/8 SAE Male
307S	Liquid Line 7/8 ODF
417S	Liquid Line 7/8 ODF
757S	Liquid Line 7/8 ODF

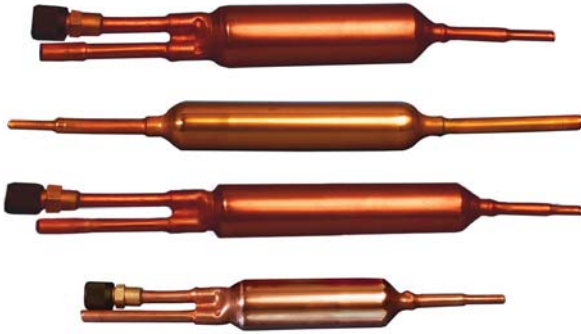
Item ID	Description
Parker BI-Flow Filter Driers	
BF084S	BI-Flow 1/2 ODF
BF164S	BI-Flow 1/2 ODF
BF304S	BI-Flow 1/2 ODF
BF084	BI-Flow 1/2 SAE Male
BF164	BI-Flow 1/2 SAE Male
BF304	BI-Flow 1/2 SAE Male
BF082S	BI-Flow 1/4 ODF
BF162S	BI-Flow 1/4 ODF
BF083S	BI-Flow 3/8 ODF
BF163S	BI-Flow 3/8 ODF
BF163SXF	BI-Flow 3/8 ODF
BF163XF	BI-Flow 3/8 SAE
BF083	BI-Flow 3/8 SAE Male
BF163	BI-Flow 3/8 SAE Male
BF165S	BI-Flow 5/8 ODF
BF305S	BI-Flow 5/8 ODF
BF305	BI-Flow 5/8 SAE Male
BF307S	BI-Flow 7/8 ODF
BF083SC	Copper BI-Flow 3/8 ODF

Item ID	Description
Parker Suction Line Filter Driers	
SLD84SVHH	Suction Line 1/2 ODF
SLD84VHH	Suction Line 1/2 SAE Male
SLD139SVHH	Suction Line 1 1/8 ODF
SLD279SVHH	Suction Line 1 1/8 ODF
SLD5411SVHH	Suction Line 1 3/8 ODF
SLD5413SVHH	Suction Line 1 5/8 ODF
SLD136SVHH	Suction Line 3/4 ODF
SLD166V	Suction Line 3/4 ODF
SLD306V	Suction Line 3/4 ODF
SLD86SVHH	Suction Line 3/4 ODF
SLD83SVHH	Suction Line 3/8 ODF
SLD83VHH	Suction Line 3/8 SAE Male
SLD135SVHH	Suction Line 5/8 ODF
SLD165V	Suction Line 5/8 ODF
SLD305S	Suction Line 5/8 ODF
SLD85SVHH	Suction Line 5/8 ODF
SLD135VHH	Suction Line 5/8 SAE Male
SLD137SVHH	Suction Line 7/8 ODF
SLD167V	Suction Line 7/8 ODF
SLD277SVHH	Suction Line 7/8 ODF
SLD307V	Suction Line 7/8 ODF
SLD87SVHH	Suction Line 7/8 ODF

Item ID	Description
Parker Refrigeration Recover Drier	
302V	Refrigeration Recover Drier



Stamford Spun Copper Driers



Features

- All Copper Shells
- 100% Molecular Sieve with XH9 and XH11 desiccants
- Fully Compatible with ALL new refrigerants

* PD4178: New breakthrough drier with UV Dye already installed in the drier to make it easy to locate leaks in sealed systems.

Item ID	Description	Stamford
Packard		
PD100	3/4" Directional Drier	4043
PD103	1" Directional Drier	4050
PD109	3/4" Non Directional Drier	4051
PD109P	3 Pack of PD109	4051P
PD110	3/4" Directional Drier	4040
PD114	1" Directional Drier	4041
PD111	1" Valve Drier	4039
PD111P	3 Pack of PD111	4039P
PD112	1" 30 Gram Drier	4049
PD113	1" Double Inlet Drier	4042
PD115	3/4" Valve Drier	4044
PD115P	3 Pack of PD115	4044P
PD116	1" Non Directional Drier with Stepdown	4069
PD4178 *	3/4" Universal UV Dye	4178

Parker Moisture Indicators

Features

- Available in all popular end connections up to 2 1/8"
- Solid copper extended sweat fittings permit solder installation without disassembly
- Flare models feature forged brass body and fittings
- Compact design, low silhouette, short laying in length
- Extremely accurate
- Easy viewing
- U.L. listed



Item ID	Description
Parker Sight Glass Moisture Indicators	
PSG2S	Sight Glass Moisture Indicators 1/4 ODF
PSG3S	Sight Glass Moisture Indicators 3/8 ODF
PSG4S	Sight Glass Moisture Indicators 1/2 ODF
PSG5S	Sight Glass Moisture Indicators 5/8 ODF
PSG7S	Sight Glass Moisture Indicators 7/8 ODF
PSG9S	Sight Glass Moisture Indicators 1 1/8 ODF
PSG11S	Sight Glass Moisture Indicators 1 3/8 ODF
PSG13S	Sight Glass Moisture Indicators 1 5/8 ODF
PSG17S	Sight Glass Moisture Indicators 2 1/8 ODF

Danfoss Sight Glass / Moisture Indicators

Features

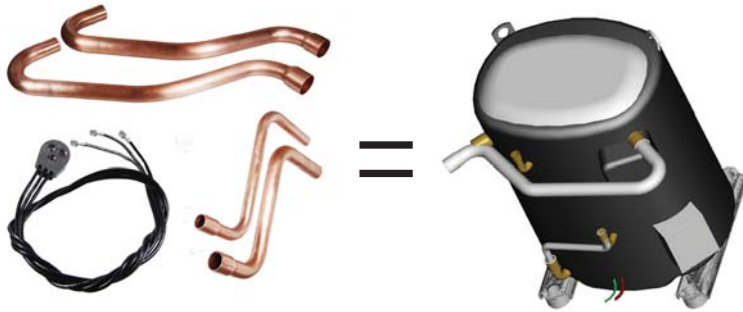
- Indicates dangerous moisture levels to prevent formation of harmful acids



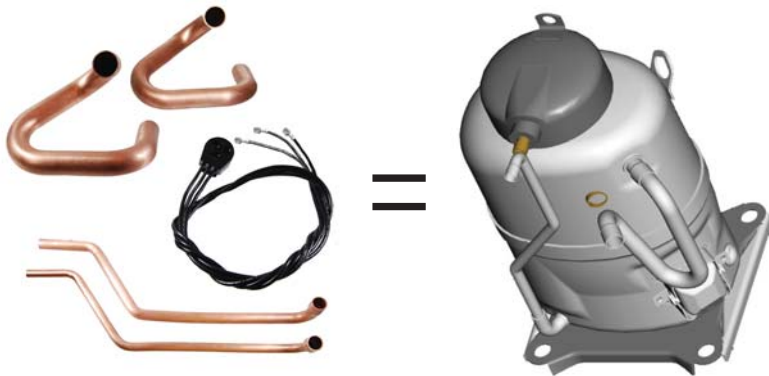
Item ID	Description	Conn. Size	Connection Type	Overall Length
Danfoss				
014-0137	SGN6	1/4" SAE	M Flare x F Flare	1.81
014-0138	SGN10	3/8" SAE	M Flare x F Flare	2.24
014-0142	SGN6S	1/4" ODF	ODF x ODF	3.98
014-0143	SGN10S	3/8" ODF	ODF x ODF	4.69

Bristol Retrofit Assist Kits

344062 RECIPROCATING COMPRESSOR KIT



344063 SCROLL COMPRESSOR REPLACEMENT KIT



EASY TO USE REPLACEMENT KIT!

Features

- Includes suction and discharge tube that will match up to most CR reciprocating or ZR scroll compressors.
- Eliminates the need to bend copper tubing on a jobsite.
- Includes a wiring harness that will plug directly onto the quick connect terminal plug on Bristol compressor.
- Kits include three 36 inch wires labeled Common, Start, and Run, reducing the possibility of mis-wiring the compressor.

Item ID	Application	For Use With	Includes
Bristol			
344062	Re-piping of Bristol models H2E, H29B and H22J in place of Copeland CR models	Air conditioning compressor installations	Copper tubing and wiring harness
344063	Re-piping of Bristol models H2E, H29B and H22J in place of Copeland Scroll models	Air conditioning compressor installations	Copper tubing and wiring harness

Bristol Wiring Harness



Features

- Most compressor failures may be attributed to mis-wiring the compressor. This 36" wiring harness with molded plug helps to eliminate costly mis-wires and eliminates the guess work out of wiring in the compressor. The Bristol Wiring Harness provides a low cost solution by getting the serviceman to the next job faster.
- For Bristol compressors.

Item ID	Gauge	Length (In.)
Packard 651078	12	36

Three Wire Compressor Terminal Repair Kits



Features

The Term-Lok Kit was designed not only for the repair of burned or damaged spade terminals on air conditioners and refrigeration units, but also for non burned terminals to prevent future burn off. They are made of high quality, heat sensed brass and are guaranteed for the life of the compressor. The kit contains a brass cylindrical tube with a diameter large enough to slip over the pins and has a stainless set screw to lock onto the terminal. A wrench is provided with every kit for easy installation and an anti-arcing spacer is also included to prevent arcing between posts. Once the kit is installed, the compressor cover may be placed back over the terminals without any obstructions. The kits are installed in 15 minutes or less, allowing the technician to restore the unit to power without having to replace the compressor.

- Kits contain everything necessary for a fast and easy terminal repair
- Will never crack, break or burn off
- Provides four full points of contact on the new terminal

Item ID	Gauge	Services
Term-LOK		
TLC38	8	5 ton units and above
TLC310	10	3 - 5 ton units
TLC312	12	1 - 3 ton units

Tutco Crankcase Heaters



Features

- High temperature silicone rubber element and VW-1 insulated lead wires rated for 150°C
- Wattage for each model matches compressor requirements
- Nominal power consumption due to highly efficient heat transmission and low wattage
- Voltage ratings through 600 VAC
- Corrosion resistant exterior
- Completely moisture-proof
- Quick and easy installation
- UL recognized
- Custom leads and terminations available

Item ID	Volts	Watts	Girth Dimensions		Shape
			Min	Max	
Tutco					
CH197240	120	25	13 13/16	21	Round
CH19740	240	25	13 13/16	21	Round
CH1982	120	35	16 13/16	24	Oval
CH135240	120	40	23 7/16	27 1/2	Oval
CH13540	240	40	23 7/16	27 1/2	Oval
CH196	240	40	19 15/16	27 1/8	Round
CH205	240	40	21 3/16	24 3/8	Round
CH2057	460	40	21 3/16	24 3/8	Round
CH1963	480	40	19 15/16	27 1/8	Round
CH103240	120	45	24 13/16	32	Oval
CH10340	240	45	24 13/16	32	Oval
CH184	240	45	13 13/16	21	Round
CH105240	120	50	31 13/16	39	Round
CH105140	208	50	31 13/16	39	Round
CH10540	240	50	31 13/16	39	Round
CH105340	480	50	31 13/16	39	Round
CH101240	120	54	27 7/16	39 5/8	Oval
CH101140	208	54	27 7/16	39 5/8	Oval
CH10140	240	54	27 7/16	39 5/8	Oval
CH101340	480	54	27 7/16	39 5/8	Oval
CH102140	208	60	25 13/16	33	Oval
CH10240	240	60	25 13/16	33	Oval
CH1677	460	65	31 13/16	38	Round
CH2127	460	67	32 13/16	35 1/2	Round

Item ID	Volts	Watts	Girth Dimensions		Shape
			Min	Max	
Tutco					
CH1672	120	70	34 1/4	41 5/8	Round
CH2022	120	70	33 9/16	37 3/8	Round
CH2802	120	70	28	20 13/16	Round
CH202	240	70	33 9/16	37 3/8	Round
CH230	240	70	21 13/16	29	Round
CH280	240	70	28	20 13/16	Round
CH2023	480	70	33 9/16	37 3/8	Round
CH2303	480	70	21 13/16	29	Round
CH2803	480	70	28	20 13/16	Round
CH2306	575	70	21 13/16	29	Round
CH10440	240	75	41 9/16	48 3/4	Round
CH104340	480	75	41 9/16	48 3/4	Round
CH1767	460	92	32 13/16	35 1/2	Round
CH2552	120	100	35 1/16	28 5/16	Round
CH147	240	100	32 13/16	35 1/2	Round
CH255	240	100	35 1/16	28 5/16	Round
CH1477	460	100	32 13/16	35 1/2	Round
CH2707	460	100	36	43 3/8	Round
CH2727	460	100	38	30 13/16	Round
CH2553	480	100	35 1/16	28 5/16	Round
CH2832	100	120	38 1/8	45 1/2	Round
CH2822	150	120	38 1/8	45 1/2	Round
CH2557	90	460	27 3/4	35 1/8	Round
CH2423	54	480	20 5/8	28	Round
CH2913	120	480	32 3/4	40 1/8	Round

Bristol "G" Series Rotalock Adapters



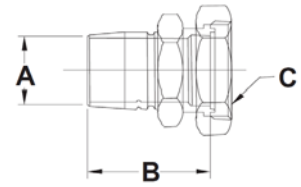
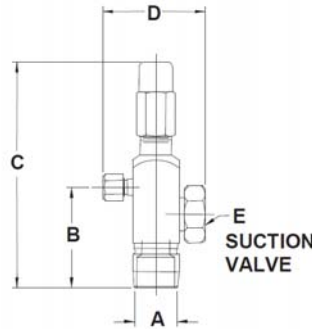
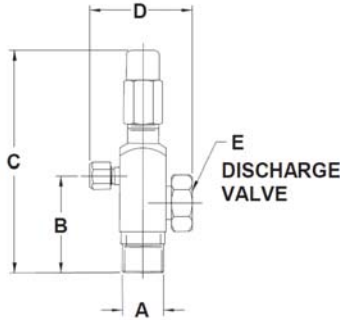
344029
344035



344030
344033
344034



344031



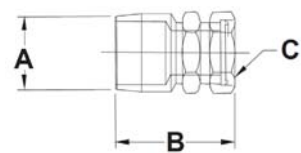
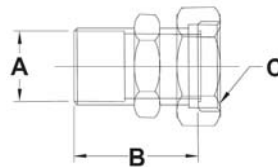
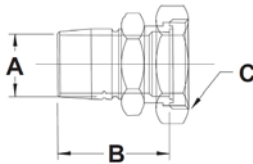
344032



344036



344039



Applications:

- Adaptor valve used to change from rotalock to brazed connection

Item ID	Description	Includes	A	B	C	D	E	Replace Bristol
Bristol								
344030	Suction Valve	Teflon seal	1 1/8	3	7 3/16	2 1/2	1 3/4-12 UNF	250508
344033	Suction Valve	Teflon seal	1 3/8	3 5/16	7 3/16	2 1/2	1 3/4-12 UNF	250525
344034	Suction Valve	Teflon seal	1 5/8	3 1/2	7 3/16	2 1/2	1 3/4-12 UNF	250526
344036	Suction Adapter Straight	Teflon seal	1 3/8	2 1/2	1 3/4-12 UNF	—	—	250529
344032	Suction Adapter Straight	Teflon seal	1 1/8	2 3/16	1 3/4-12 UNF	—	—	250510
344029	Discharge Valve	Teflon seal	7/8	2 11/32	5 11/32	2 1/64	1 1/4-12 UNF	250507
344035	Discharge Valve	Teflon seal	1 1/8	19/32	5 11/32	2 5/32	1 1/4-12 UNF	250527
344031	Discharge Adapter Straight	Teflon seal	7/8	1 23/32	1 1/4-12 UNF	—	—	250509
344039	Discharge Adapter Straight	Teflon seal	1 1/8	2	1 1/4-12 UNF	—	—	250534

Notes:

Compressors with sweat fittings or brazed fittings cannot be adapted to rotalocks.
250xxx Series are not Teflon seal.

Mounting Hardware - Cush-A-Clamp



Features

- Tube Sizes: 1/4" to 6-1/8" ; Pipe Sizes: 1/4" to 6"
- Channel mounted clamping systems ideal for multiple line runs, while absorbing shock and vibration, reducing unwanted noise and preventing galvanic corrosion.
- The clamp features a unique shoulder stud which is securely fashioned to one clamp half. This "Controlled Squeeze" design eliminates over-tightening and rotation while a nylon insert nut assures a positive lock. Clamps are available in steel (with electrochromate finish), and stainless steel. Fits any standard 1-5/8" wide channel.
- The cushion is manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. A patented "Living Hinge" allows the cushion to be spread apart for quick, easy installation on sizes from 1/4" through 1-3/4". Interlock edges and channel locator legs ensure that the cushion remains in place.
- Installation: One man, one tool time savings. Retrofits can be added without disassembling your present system.

Item ID	Size	Material
ZSI Cush-A-Clamp Zinc Plated		
004T008	1/4" Tube OD	Zinc Plated Anti-Vibration
006T010	3/8" Tube OD	Zinc Plated Anti-Vibration
008T012	1/2" Tube OD	Zinc Plated Anti-Vibration
009N012	1/4" Pipe	Zinc Plated Anti-Vibration
010T014	5/8" Tube OD	Zinc Plated Anti-Vibration
011N014	3/8" Pipe	Zinc Plated Anti-Vibration
012T016	3/4" Tube OD	Zinc Plated Anti-Vibration
014N018	1/2" Pipe	Zinc Plated Anti-Vibration
014T018	7/8" Tube OD	Zinc Plated Anti-Vibration
016T020	1" Tube OD	Zinc Plated Anti-Vibration
017N022	3/4" Pipe	Zinc Plated Anti-Vibration
018T022	1 1/8" Tube OD	Zinc Plated Anti-Vibration
020T024	1 1/4" Tube OD	Zinc Plated Anti-Vibration
021N026	1" Pipe	Zinc Plated Anti-Vibration
022T026	1 3/8" Tube OD	Zinc Plated Anti-Vibration
024N028	1 1/2" Tube OD	Zinc Plated Anti-Vibration
026N030	1 5/8" Tube OD	Zinc Plated Anti-Vibration
027N032	1 1/4" Pipe	Zinc Plated Anti-Vibration
028N032	1 3/4" Tube OD	Zinc Plated Anti-Vibration
030N034	1 7/8" Tube OD	Zinc Plated Anti-Vibration
032N036	2" Tube OD	Zinc Plated Anti-Vibration
034N040	2 1/8" Tube OD	Zinc Plated Anti-Vibration
038N042	2 1/4" Tube OD	Zinc Plated Anti-Vibration
038N044	2 3/8" Tube OD 2" Pipe	Zinc Plated Anti-Vibration
040N046	2 1/2" Tube OD	Zinc Plated Anti-Vibration
042N048	2 5/8" Tube OD	Zinc Plated Anti-Vibration
046N052	2 7/8" Tube OD	Zinc Plated Anti-Vibration
050N054	3" Tube OD	Zinc Plated Anti-Vibration
050N056	3 1/8" Tube OD	Zinc Plated Anti-Vibration
053N060	3 5/16" Tube OD	Zinc Plated Anti-Vibration
056N062	3 1/2" Tube OD 3" Pipe	Zinc Plated Anti-Vibration
058N064	3 5/8" Tube OD	Zinc Plated Anti-Vibration
064N072	4" Tube OD 3 1/2" Pipe	Zinc Plated Anti-Vibration
066N074	4 1/8" Tube OD	Zinc Plated Anti-Vibration
069N076	4 5/16" Tube OD	Zinc Plated Anti-Vibration
072N080	4 1/2" Tube OD 4" Pipe	Zinc Plated Anti-Vibration
082N090	5 1/8" Tube OD	Zinc Plated Anti-Vibration
089N096	5" Pipe	Zinc Plated Anti-Vibration
096N106	6" Tube OD	Zinc Plated Anti-Vibration
098N106	6 1/8" Tube OD	Zinc Plated Anti-Vibration
106N144	6" Pipe	Zinc Plated Anti-Vibration

Item ID	Size	Material
ZSI Cush-A-Clamp Stainless Steel		
004NS008	1/4" Tube OD	Stainless Steel Anti-Vibration
006NS010	3/8" Tube OD	Stainless Steel Anti-Vibration
008NS012	1/2" Tube OD	Stainless Steel Anti-Vibration
009NS012	1/4" Pipe	Stainless Steel Anti-Vibration
010NS014	5/8" Tube OD	Stainless Steel Anti-Vibration
011NS014	3/8" Pipe	Stainless Steel Anti-Vibration
012NS016	3/4" Tube OD	Stainless Steel Anti-Vibration
014NS018	7/8" Tube OD	Stainless Steel Anti-Vibration
016NS020	1" Tube OD	Stainless Steel Anti-Vibration
017NS022	3/4" Pipe	Stainless Steel Anti-Vibration
018NS022	1 1/8" Tube OD	Stainless Steel Anti-Vibration
020NS024	1 1/4" Tube OD	Stainless Steel Anti-Vibration
021NS026	1" Pipe	Stainless Steel Anti-Vibration
022NS026	1 3/8" Tube OD	Stainless Steel Anti-Vibration
024NS028	1 1/2" Tube OD	Stainless Steel Anti-Vibration
026NS030	1 5/8" Tube OD	Stainless Steel Anti-Vibration
027NS032	1 1/4" Pipe	Stainless Steel Anti-Vibration
028NS032	1 3/4" Tube OD	Stainless Steel Anti-Vibration
030NS034	1 7/8" Tube OD	Stainless Steel Anti-Vibration
032NS036	2" Tube OD	Stainless Steel Anti-Vibration
034NS040	2 1/8" Tube OD	Stainless Steel Anti-Vibration
038NS044	2 3/8" Tube OD	Stainless Steel Anti-Vibration
040NS046	2 1/2" Tube OD	Stainless Steel Anti-Vibration
042NS048	2 5/8" Tube OD	Stainless Steel Anti-Vibration
046NS052	2 7/8" Tube OD	Stainless Steel Anti-Vibration
050NS054	3" Tube OD	Stainless Steel Anti-Vibration
050NS056	3 1/8" Tube OD	Stainless Steel Anti-Vibration
056NS062	3 1/2" Tube OD	Stainless Steel Anti-Vibration
058NS064	3 5/8" Tube OD	Stainless Steel Anti-Vibration
064NS072	4" Tube OD	Stainless Steel Anti-Vibration
066NS074	4 1/8" Tube OD	Stainless Steel Anti-Vibration
072NS080	4 1/2" Tube OD	Stainless Steel Anti-Vibration
082NS090	5 1/8" Tube OD	Stainless Steel Anti-Vibration
089NS096	5" Pipe	Stainless Steel Anti-Vibration
098NS106	6 1/8" Tube OD	Stainless Steel Anti-Vibration
106NS114	6" Pipe	Stainless Steel Anti-Vibration

Mounting Hardware - Cush-A-Click



Features

- The Cush-A-Click offers great advantage by retaining an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings. The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation
- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- Corrosion resistance
- Light weight

Item ID	Dimension
ZSI Cush-A-Click Polyamide Alloy	
CC12	3/4"
CC14	7/8"
CC16	1"
CC18	1 1/8"
CC20	1 1/4"
CC22	1 3/8"
CC24	1 1/2"
CC26	1 5/8"
CC32	2"
CC34	2 1/8"



Mounting Hardware - Cush-A-Therm™



Features

- The Cush-A-Therm™ Clamp is a fast easy way to provide a crush-resistant airtight seal for chilled refrigeration or mechanical pipe-lines that require continuous insulation. The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipelines. The outer cover consists of a special rubber coating which seals the cushion completely after installation in order to prevent condensation. Its strong closed-cell structure is ideal for liquid cooling lines to prevent condensation and save energy.
- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration
- Polyurethane foam laminated with a rubber lining
- Temperature range: -70°F to +220°F
- Comes complete with cushion and clamp

Item ID	Insulation Thickness (In.)	Dimension (In.)
ZSI Cush-A-Therm		
UX3834	3/4	3/8
UX1234	3/4	1/2
UX5834	3/4	5/8
UX3434	3/4	3/4
UX7834	3/4	7/8
UX11834	3/4	1 1/8
UX13834	3/4	1 3/8
UX15834	3/4	1 5/8
UX21834	3/4	2 1/8
UX23834	3/4	2 3/8
UX25834	3/4	2 5/8
UX31834	3/4	3 1/8
UX35834	3/4	3 5/8
UX41834	3/4	4 1/8
UX5810	1	5/8
UX3410	1	3/4
UX7810	1	7/8
UX11810	1	1 1/8
UX13810	1	1 3/8
UX15810	1	1 5/8
UX21810	1	2 1/8
UX23810	1	2 3/8
UX25810	1	2 5/8
UX31810	1	3 1/8
UX41810	1	4 1/8

Mounting Hardware - Cush-A-Grip



Features

- Accomodates 10 sizes of tube
- Accomodates 5 sizes of pipe
- Diameters from .25" to 1.31"
- Metric sizes from 6mm to 32mm
- Hex machine screw
- Captured nylon lock nut

Item ID	Description
ZSI Cush-A-Grip	
CG10	1/4" TO 1/2" T, 1/4" P MULTI-SIZE CLAMP 10PAK
CG20	5/8" TO 7/8" T, 3/8" P MULTI-SIZE CLAMP 10PAK
CG30	7/8" TO 1-1/8" T, 3/4" P MULTI-SIZE CLAMP 10PAK
CG40	1" TO 1-1/4" T, 3/4", 1" P MULTI-SIZE CLAMP 10PAK



Mounting Hardware - Cush-A-Claw™



Features

- The Cush-A-Claw™ grabs on to your tube, pipe, or hose and holds it in place. The unique one piece patented design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice type material of some of our other products that you've come to know and trust.
- Quick, simple, and easy snap-in installation of tube, pipe, or hose
- For strut mount, sure grip strut base easily rotates into strut. Will not rust. Non conducting saves time and money
- Temp range: -50° to 275° F
- Works great indoors or outdoors
- Designed for light duty loads and applications
- Prevents galvanic corrosion of dissimilar metals
- An excellent alternative to steel, stainless steel, or galvanized clamps

Item ID	Description
ZSI Cush-A-Claw Strut Mount	
CL06	3/8" O.D. Tube thermoplastic channel mounted
CL08	1/2" O.D. Tube thermoplastic channel mounted
CL10	5/8" O.D. Tube thermoplastic channel mounted
CL12	3/4" O.D. Tube thermoplastic channel mounted
CL14	7/8" O.D. Tube thermoplastic channel mounted
CL18	1 1/8" O.D. Tube thermoplastic channel mounted
ZSI Cush-A-Claw Surface Mount	
EMT1	1" EMT conduit thermoplastic channel mounted
EMT12	1/2" EMT conduit thermoplastic channel mounted
EMT34	3/4" EMT conduit thermoplastic channel mounted
CLS04	1/4" O.D. Tube thermoplastic surface mounted
CLS06	3/8" O.D. Tube thermoplastic surface mounted
CLS08	1/2" O.D. Tube thermoplastic surface mounted
CLS10	3/4" O.D. Tube thermoplastic surface mounted
CLS12	3/4" O.D. Tube thermoplastic surface mounted
CLS14	7/8" O.D. Tube thermoplastic surface mounted
CLS18	1 1/8" O.D. Tube thermoplastic surface mounted
EMTS34	3/4" EMT conduit thermoplastic surface mounted

Mounting Hardware - Cush-A-Clip



Item ID	Dimension
ZSI Cush-A-Clip	
RPC38	3/8" OD.
RPC12	1/2" OD.
RPC58	5/8" OD.
RPC34	3/4" OD.
RPC78	7/8" OD.
RPC118	1 1/8" OD.

Features

- A SIMPLE, ECONOMICAL, LIGHTWEIGHT HANGER FOR SUPPORTING TUBING
- Manufactured from black nylon
- Sizes from 3/8" to 1-1/8"
- One piece design makes installation a snap!
- No nuts to tighten, no parts to loosen!
- Temperatures from -40°F to 275°F
- Secure but non-tightening design allows for expansion, greatly reducing joint fractures

Mounting Hardware - Quick-Clip



Item ID	Dimension
ZSI Quick-Clip	
QC12	3/4"
QC14	7/8"
QC16	1"
QC18	1 1/8"
QC20	1 1/4"
QC22	1 3/8"
QC24	1 1/2"
QC26	1 5/8"
QC32	2"
QC34	2 1/8"

Features

- The Quick-Clip is a unique one-piece design manufactured from a composite polyamide alloy combining strength with light weight. It will overcome the problems of using cable ties for piping, electrical, optical and network cabling.
- Quick Clip locates easily on 3/8" rod
- No breaks in insulation material
- Fast and easy installation, saves time and money
- Single handed installation
- Manufactured from a composite polyamide, tested from -40°F to +275°F. It combines strength with light weight
- Ideal for network cables
- Studding panel inserts

TorqStart



Features

- Potential relay and start capacitor for hard start applications
- Three wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals allow for quicker installation



Item ID	Capacitor Size (µF)	HP Rating	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
Packard						
TQS1	189-227	2 1/2 thru. 3 1/2	Standard	171-184	420	TO-5 SK3W3
TQS2	270-324	4 1/2 thru. 6	Scroll	171-184	420	KS1 SK3W6S

Hard Start Kits And All In One Hard Start Packs

Hard Start Kits



Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with “Piggy-Back” terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

All In One Hard Start Packs



Features

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- Both models adapt to 115 volt compressors with external overload protector

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces	Item ID	Compressor Sizes	Volts	Replaces
Packard					Packard			
HS5	115-277	1/2 to 5	300%	32701 600-057 SPP5	HS41	1/4 and 1/3 HP	115	600-410 RCO410
HS6	115-277	1/2 to 5	500%	32702 600-052 SPP6	HS81	1/12 thru 1/5 HP	115	600-810 RCO810
HS8	115-277	1/2 to 5	600%	32708 SPP8				



TESTED TO THE **MAX.**

Why are we so confident that our Titan Max™ line of definite purpose contactors are one of the most durable and dependable on the market?

Because they were independently **tested** by several OEM manufacturers.

And the data speaks for itself:

Electrical life tested to **250,000 cycles**

Mechanical life tested to **1,000,000 cycles**

Performance unaffected by mounting position



With versatile, compact size, heavy duty contacts and a dust-free internal construction, it's sure to become your new go-to contactor to replace the Furnas DP and more. See page 103.



Packard Start Capacitors

Item ID	MFD	Can Size	Industry No.
Packard 110-125 VAC			
PMJ21	21-25	1	11002
PMJ25	25-30	1	11003
PMJ30	30-36	1	11004
PMJ36	36-43	1	11005
PMJ43	43-53	1	11006
PMJ47	47-56	1	
PMJ56	56-75	1	11007
PMJ64	64-77	1	
PMJ72	72-88	1	11008
PMJ88	88-108	1	11009
PMJ108	108-130	1	11010
PMJ124	124-149	1	11112
PMJ130	130-156	1	11112
PMJ145	145-174	1	11013
PMJ161	161-193	1	11014
PMJ189	189-227	1	11015
PMJ200	200-240	1	11016
PMJ216	216-259	1	11017
PMJ216A	216-259	2	11017
PMJ233	233-280	1	10018
PMJ233A	233-280	2	10018
PMJ243	243-292	1	
PMJ243A	243-292	2	
PMJ270	270-324	1	11019
PMJ270A	270-324	2	11019
PMJ295	295-354	1	
PMJ300	300-360	3	11020
PMJ324	324-388	1	11021
PMJ324A	324-388	4	11021
PMJ324B	324-388	2	11021
PMJ340	340-408	2	11022
PMJ340A	340-408	4	11022
PMJ378	378-455	2	11023
PMJ378A	378-455	4	11023
PMJ400	400-480	2	11024
PMJ400A	400-480	4	11024
PMJ430	430-516	2	
PMJ430A	430-516	4	
PMJ430B	430-516	6	
PMJ460	460-552	2	11025
PMJ460A	460-552	4	11025
PMJ460B	460-552	5	11025
PMJ540	540-648	5	11026
PMJ540A	540-648	4	11026
PMJ590	590-708	5	11027
PMJ590A	590-708	4	11027
PMJ645	645-774	5	
PMJ708	708-850	5	11028
PMJ708A	708-850	7	11028
PMJ708B	708-850	4	11028
PMJ800	800-960	4	
PMJ815	815-978	5	
PMJ829	829-995	5	11029
PMJ829A	829-995	7	11029
PMJ850	850-1020	7	
PMJ860	860-1032	4	
PMJ1000	1000-1200	7	11030
PMJ1290	1290-1548	7	

Can Size	Diameter (In.)	Height (In.)
Can Dimension		
1	1 7/16	2 3/4
2	1 7/16	3 3/8
3	1 7/16	4 3/8
4	1 13/16	3 3/8
5	1 13/16	4 3/8
6	2 1/16	3 3/8
7	2 1/16	4 3/8
8	2 9/16	4 3/8

Item ID	MFD	Can Size	Industry No.
Packard 165 VAC			
PSMJ72	72-88	1	
PSMJ88	88-108	1	
PSMJ108	108-130	1	
PSMJ124	124-149	1	11031
PSMJ130	130-156	2	
PSMJ145	145-174	2	11032
PSMJ161	161-193	2	11033
PSMJ189	189-227	2	11034
PSMJ216	216-259	4	
PSMJ233	233-280	4	11035
PSMJ243	243-292	4	
PSMJ270	270-324	4	11036
PSMJ340	340-408	4	
PSMJ378A	378-455	5	
PSMJ400	400-480	4	11037
PSMJ540	540-648	4	
PSMJ710	710-850	6	
PSMJ710A	710-850	7	
PSMJ810A	810-972	7	
Packard 220-250 VAC			
PTMJ21	21-25	1	11038
PTMJ25	25-30	1	11039
PTMJ30	30-36	1	11040
PTMJ36	36-43	1	11041
PTMJ43	43-53	1	11042
PTMJ43A	43-53	2	11042
PTMJ47	47-56	1	
PTMJ53	53-64	2	
PTMJ56	53-64	1	11043
PTMJ56A	56-72	1	11043
PTMJ59	59-71	6	
PTMJ64	64-77	1	
PTMJ64A	64-77	2	
PTMJ72	72-88	4	11044
PTMJ86	86-108	6	
PTMJ88	88-108	4	11045
PTMJ105	105-126	6	
PTMJ108	108-130	4	11046
PTMJ124	124-149	5	11148
PTMJ124A	124-149	4	11148
PTMJ130	130-158	4	
PTMJ130A	130-158	5	
PTMJ145	145-174	4	11049
PTMJ145A	145-174	6	11049
PTMJ161	161-193	6	11050
PTMJ161A	161-193	5	11050
PTMJ189	189-227	6	11051
PTMJ189A	189-227	7	11051
PTMJ216	216-259	6	11052
PTMJ216A	216-259	7	11052
PTMJ233	233-280	6	11053
PTMJ233A	233-280	7	10053
PTMJ243	243-292	6	
PTMJ243A	243-292	7	
PTMJ270	270-324	6	11054
PTMJ270A	270-324	7	11054
PTMJ280	280-336	7	
PTMJ284	284-333	8	
PTMJ320	320-384	7	
PTMJ340	340-408	7	
PTMJ378	378-455	8	
PTMJ400	400-480	7	
PTMJ400A	400-480	8	
PTMJ430	430-516	8	
PTMJ630	630-750	8	

Notes:
 • Please call when dimensions are critical.
 • * With resistor



Features

- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits.
- Cans are made of moisture and oil resistant molded phenolic resin or plastic.
- Standard dual blade terminals.
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

Item ID	MFD	Can Size	Industry No.
Packard 330 VAC			
PRMJ21	21-25	2	11055
PRMJ25	25-30	2	11056
PRMJ30	30-36	2	11057
PRMJ36	36-43	2	11058
PRMJ43	43-53	4	11059
PRMJ47	47-56	4	
PRMJ56	53-64	4	11060
PRMJ64	64-77	4	
PRMJ72	72-88	4	11061
PRMJ72A	72-88	6	11061
PRMJ88	88-108	6	11062
PRMJ108	108-130	7	11063
PRMJ108A	108-130	6	11063
PRMJ108R	108-130	4	
PRMJ124	124-149	7	11165
PRMJ130	130-158	7	11064
PRMJ135	135-162	7	
PRMJ145	145-174	7	11066
PRMJ145A	145-174	8	11066
PRMJ145R *	145-174	7	11066
PRMJ161	161-193	7	10067
PRMJ189	189-227	7	11068
PRMJ189A	189-227	8	11068
PRMJ216	216-259	8	11069
PRMJ216A	216-259	7	11069
PRMJ243	243-292	6	
PRMJ270	270-324	8	11070
PRMJ270R *	270-324	8	11070
PRMJ300	300-360	8	

TITAN PRO™ Motor Run Capacitors



TITANPRO™

440/370 volt
reduces inventory costs



Why Go PRO ?

OUR ENTIRE PRO LINE RUNS UP TO **83%** LONGER OPERATIONAL LIFE THAN A STANDARD MOTOR RUN CAPACITOR AND COMPLIES WITH THE EIA-456A INDUSTRY STANDARD FOR ENDURANCE.

Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry Nos.	
Titan Pro 440/370 Volt - Single Section						
TOCF2	2	1.36	2.13	1.97	12026	12002
TOCF2.5	2.5	1.36	2.13	1.97	12019	—
TOCF3	3	1.36	2.13	1.97	12027	12003
TOCF4	4	1.36	2.13	2.17	12028	12004
TOCF5	5	1.36	2.13	2.17	12029	12005
TOCF6	6	1.36	2.13	2.17	12030	12006
TOCF7.5	7.5	1.36	2.13	2.17	12031	12007
TOCF10	10	1.36	2.13	2.56	12032	12008
TOCF12.5	12.5	1.36	2.13	2.95	12033	12009
TOCF15	15	1.36	2.13	2.95	12034	12010
TOCF17.5	17.5	1.36	2.13	3.74	12036	12012
TOCF20	20	1.91	2.91	2.68	12037	12014
TOCF25	25	1.91	2.91	3.07	12040	12015
TOCF30	30	1.91	2.91	3.46	12041	12017
TOCF35	35	1.91	2.91	3.86	12043	12018
TOCF40	40	1.91	2.91	4.06	12045	12021
TOCF45	45	1.91	2.91	4.45	12048	12023
TOCF50	50	1.91	2.91	4.84	12049	12025
TOCF55	55	1.91	2.91	5.04	12050	12024
TOCF60	60	1.97	3.66	3.78	12051	12087
TOCF65	65	1.91	2.91	5.43	12952	—
Titan Pro 480 Volt - Single Section						
TOCF25A	25	1.91	2.91	3.66	—	—
Titan Pro 440/370 Volt - Dual Section						
TOCFD154	15+4	1.91	2.91	2.68	12270	12056
TOCFD155	15+5	1.91	2.91	2.68	12271	12057
TOCFD2015	20+15	1.91	2.91	3.86	12083	12164
TOCFD255	25+5	1.91	2.91	3.46	12184	12066
TOCFD2575	25+7.5	1.91	2.91	3.46	12182	12143
TOCFD2510	25+10	1.91	2.91	3.86	12183	12167
TOCFD304	30+4	1.91	2.91	3.86	12181	12145
TOCFD305	30+5	1.91	2.91	3.86	12187	12069
TOCFD3075	30+7.5	1.91	2.91	3.86	12038	12146
TOCFD353	35+3	1.91	2.91	4.25	12085	12148
TOCFD354	35+4	1.91	2.91	4.25	12179	12071
TOCFD355	35+5	1.91	2.91	4.25	12185	12072
TOCFD3575	35+7.5	1.91	2.91	4.25	12188	12149
TOCFD405	40+5	1.91	2.91	4.65	12086	12171
TOCFD4075	40+7.5	1.91	2.91	4.65	12189	12152
TOCFD455	45+5	1.91	2.91	5.04	12190	12174
TOCFD505	50+5	1.97	3.66	4.37	12108	12138
TOCFD555	55+5	1.97	3.66	4.57	12275	12154
TOCFD5510	55+10	1.97	3.66	4.76	12276	—
TOCFD605	60+5	1.97	3.66	4.76	12109	12139

Notes:
 • Height dimension does not include terminals. Add 1/2" for terminals.
 • Please call when dimensions are critical.



Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry Nos.	
Titan Pro 440/370 Volt - Single Section					
TRCF3	3	1.71	1.97	12103	12803
TRCF5	5	1.71	1.97	12105	12095
TRCF7.5	7.5	1.71	2.17	12107	12097
TRCF10	10	1.91	2.17	12232	12098
TRCF12.5	12.5	1.91	2.36	12233	12099
TRCF15	15	1.91	2.56	12234	12210
TRCF17.5	17.5	1.91	2.76	12236	12212
TRCF20	20	1.91	2.95	12237	12214
TRCF25	25	2.11	2.95	12240	12215
TRCF30	30	2.11	3.35	12241	12217
TRCF35	35	2.11	3.54	12243	12218
TRCF40	40	2.11	3.94	12245	12221
TRCF45	45	2.11	4.33	12248	12223
TRCF50	50	2.30	3.94	12251	12225
TRCF55	55	2.30	4.33	12252	12226
TRCF60	60	2.30	4.53	12254	12227
TRCF70	70	2.30	4.92	12258	12229
TRCF80	80	2.64	4.72	12259	12199
TRCF100	100	2.36	6.30	—	—
Titan Pro 440/370 Volt - Dual Section					
TRCFD205	20+5	2.11	3.35	12115	12260
TRCFD2015	20+15	2.11	3.94	12112	12209
TRCFD255	25+5	2.11	3.54	12278	12261
TRCFD2575	25+7.5	2.11	3.74	12279	12262
TRCFD2515	25+15	2.11	4.33	12114	—
TRCFD303	30+3	2.11	4.33	12126	12244
TRCFD305	30+5	2.11	3.94	12281	12264
TRCFD3075	30+7.5	2.11	4.13	12282	12224
TRCFD353	35+3	2.11	4.53	12077	12082
TRCFD354	35+4	2.11	4.53	12070	12231
TRCFD355	35+5	2.11	4.13	12283	12266
TRCFD3575	35+7.5	2.11	4.33	12284	12235
TRCFD403	40+3	2.11	4.72	12078	12074
TRCFD405	40+5	2.64	3.74	12286	12178
TRCFD4075	40+7.5	2.64	3.74	12287	12268
TRCFD453	45+3	2.64	3.74	12079	12073
TRCFD455	45+5	2.64	3.74	12288	12269
TRCFD4575	45+7.5	2.64	3.74	12289	12249
TRCFD505	50+5	2.64	3.94	12290	12191
TRCFD5075	50+7.5	2.64	3.94	12291	12192
TRCFD555	55+5	2.64	4.13	12292	12193
TRCFD5575	55+7.5	2.64	4.13	12293	12194
TRCFD603	60+3	2.64	4.33	12160	—
TRCFD605	60+5	2.64	4.33	12294	12195
TRCFD6075	60+7.5	2.64	4.33	12295	12196
TRCFD6010	60+10	2.64	4.53	12296	12265
TRCFD705	70+5	2.64	4.92	12255	12053
TRCFD7075	70+7.5	2.64	4.92	12166	12054
TRCFD805	80+5	2.64	5.31	12257	12197
TRCFD8075	80+7.5	2.64	5.31	12216	12198
TRCFD8010	80+10	2.64	5.31	12117	12201

TITAN PRO 370™ Motor Run Capacitors

TITAN PRO 370™ 370 volt offers best value in class

PRO - series: Features & Benefits

- RELIABLE.** Tested to 60,000 hours
- COMPLIANT.** Built to EIA-456A industry standard for endurance
- CERTIFIED.** Meets UL 810 safety standards
- TESTED.** 100% electrical testing
- ROBUST.** Heat tolerant, high-grade metallized polypropylene film; and proprietary Epoxidized Soybean Oil (ESO)



Round

Item ID	MFD	Diameter (In.)	Height (In.)	Industry No
Titan Pro 370 Volt - Single Section				
TRC5	5	1.71	1.97	12995
TRC7.5	7.5	1.71	2.17	12997
TRC10	10	1.91	2.17	12998
TRC12.5	12.5	1.91	2.17	12999
TRC15	15	1.91	2.17	12710
TRC17.5	17.5	1.91	2.36	12712
TRC20	20	1.91	2.56	12714
TRC25	25	1.91	2.95	12715
TRC30	30	2.11	2.76	12717
TRC35	35	2.11	2.95	12718
TRC40	40	2.11	3.35	12721
TRC45	45	2.11	3.54	12723
TRC50	50	2.11	3.74	12725
TRC55	55	2.11	3.94	12726
TRC60	60	2.11	4.33	12727
TRC65	65	2.11	4.72	12128
TRC70	70	2.30	3.94	12729
TRC80	80	2.30	4.33	12899
TRC100	100	2.64	4.33	—

Item ID	MFD	Diameter (In.)	Height (In.)	Industry No
Titan Pro 370 Volt - Dual Section				
TRCD1010	10+10	3.15	1.97	—
TRCD154	15+4	2.95	1.97	12702
TRCD155	15+5	2.11	2.76	12703
TRCD205	20+5	2.11	2.76	12760
TRCD253	25+3	2.11	2.95	12711
TRCD254	25+4	2.11	2.95	12875
TRCD255	25+5	2.11	2.95	12761
TRCD303	30+3	2.11	3.54	12720
TRCD304	30+4	2.11	3.15	12763
TRCD305	30+5	2.11	3.35	12764
TRCD3075	30+7.5	2.11	3.35	12724
TRCD353	35+3	2.11	3.94	12730
TRCD355	35+5	2.11	3.54	12766
TRCD3575	35+7.5	2.11	3.74	12735
TRCD403	40+3	2.11	4.13	12739
TRCD405	40+5	2.11	4.13	12878
TRCD4075	40+7.5	2.11	3.94	12768
TRCD455	45+5	2.11	4.33	12769
TRCD4575	45+7.5	2.11	4.33	12749
TRCD505	50+5	2.11	4.53	12755
TRCD5075	50+7.5	2.11	4.53	—
TRCD5010	50+10	2.11	4.53	12757
TRCD555	55+5	2.64	3.74	12893
TRCD5575	55+7.5	2.64	3.74	12894
TRCD605	60+5	2.64	3.74	12895
TRCD6075	60+7.5	2.64	3.74	12896
TRCD705	70+5	2.64	4.13	—
TRCD7075	70+7.5	2.64	4.13	—
TRCD805	80+5	2.64	4.53	12897
TRCD8075	80+7.5	2.64	4.33	—
TRCD8010	80+10	2.64	4.33	—

Oval

Item ID	MFD	Depth (In.)	Width (In.)	Height (In.)	Industry No
Titan Pro 370 Volt - Single Section					
TOC2	2	1.36	2.13	1.97	12902
TOC3	3	1.36	2.13	1.97	12903
TOC4	4	1.36	2.13	2.17	12904
TOC5	5	1.36	2.13	2.17	12905
TOC5B	5	1.36	2.13	2.17	12905
TOC6	6	1.36	2.13	2.17	12906
TOC7.5	7.5	1.36	2.13	2.17	12907
TOC7.5B	7.5	1.36	2.13	2.17	12907
TOC10	10	1.36	2.13	2.56	12908
TOC10B	10	1.36	2.13	2.56	12908
TOC12.5	12.5	1.36	2.13	2.95	12909
TOC15	15	1.36	2.13	2.95	12910
TOC17.5	17.5	1.36	2.13	3.35	12912
TOC20	20	1.91	2.91	2.68	12914
TOC25	25	1.91	2.91	2.68	12915
TOC30	30	1.91	2.91	2.87	12917
TOC35	35	1.91	2.91	3.27	12918
TOC40	40	1.91	2.91	3.46	12921
TOC45	45	1.91	2.91	3.66	12923
TOC50	50	1.91	2.91	3.86	12925
TOC55	55	1.91	2.91	4.06	12924
TOC60	60	1.91	2.91	4.45	12987
TOC65	65	1.91	2.91	4.65	12988
TOC70	70	1.91	2.91	5.04	12989
TOC80	80	1.97	3.66	3.78	12990
Titan Pro 370 Volt - Dual Section					
TOCD153	15+3	1.91	2.91	2.68	12841
TOCD155	15+5	1.91	2.91	2.68	12957
TOCD255	25+5	1.91	2.91	3.07	12966
TOCD305	30+5	1.91	2.91	3.27	12969
TOCD353	35+3	1.91	2.91	3.46	12848
TOCD355	35+5	1.91	2.91	3.46	12972
TOCD405	40+5	1.91	2.91	3.86	12871
TOCD455	45+5	1.91	2.91	4.25	12874

Notes:
 • Height dimension does not include terminals. Add 1/2" for terminals.
 • Please call when dimensions are critical.



TITAN HD™ Oval Motor Run Capacitors

Features

- Made to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA



Single Section - Oval

Item ID	MFD	Can Size	Industry No.
Titan HD 370 Volt			
POC2A	2	1	12002
POC3A	3	1	12003
POC4A	4	1	12004
POC5A	5	1	12005
POC6A	6	1	12006
POC7.5A	7.5	1	12007
POC10A	10	1	12008
POC12.5A	12.5	4	12009
POC15A	15	5	12010
POC17.5A	17.5	7	12012
POC20A	20	7	12014
POC25A	25	7	12015
POC30A	30	8	12017
POC35A	35	8	12018
POC40A	40	11	12021
POC45A	45	11	12023
POC50A	50	11	12025
POC55A	55	11	12024
POC60A	60	14	12087
POC70A	70	15	12089
POC80A	80	15	12090
Titan HD 440 Volt			
POCF2A	2	1	12026
POCF2.5A	2.5	1	12019
POCF3A	3	1	12027
POCF4A	4	2	12028
POCF5A	5	1	12029
POCF6A	6	3	12030
POCF7.5A	7.5	1	12031
POCF10A	10	4	12032
POCF12.5A	12.5	7	12033
POCF15A	15	7	12034
POCF17.5A	17.5	8	12036
POCF20A	20	7	12037
POCF25B	25	11	12040
POCF30A	30	11	12041
POCF35A	35	12	12043
POCF40A	40	12	12045
POCF45A	45	13	12048
POCF50A	50	15	12049
POCF55A	55	15	12050
POCF60A	60	16	12051
POCF70A	70	18	12130
POCF80A	80	18	12140

Dual Section - Oval

Item ID	MFD	Can Size	Industry No.
Titan HD 370 Volt			
POCD153A	15+3	6	12141
POCD154A	15+4	6	12056
POCD155A	15+5	6	12057
POCD1510A	15+10	6	12058
POCD1755A	17.5+5	6	12060
POCD203A	20+3	6	12061
POCD204A	20+4	6	12062
POCD205A	20+5	6	12063
POCD2010A	20+10	7	12064
POCD2015A	20+15	7	12164
POCD253A	25+3	7	12142
POCD254A	25+4	7	12065
POCD255A	25+5	7	12066
POCD2575A	25+7.5	7	12143
POCD258A	25+8	7	12131
POCD2510A	25+10	7	12167
POCD2515A	25+15	9	12133
POCD303A	30+3	9	12144
POCD305A	30+5	7	12069
POCD3075A	30+7.5	9	12146
POCD3010A	30+10	9	12147
POCD353A	35+3	9	12148
POCD354A	35+4	9	12071
POCD355A	35+5	9	12072
POCD3575A	35+7.5	9	12149
POCD3510A	35+10	9	12150
POCD403A	40+3	10	12151
POCD404A	40+4	10	12158
POCD405A	40+5	10	12171
POCD4075A	40+7.5	10	12152
POCD4010A	40+10	10	12134
POCD455A	45+5	10	12174
POCD4575A	45+7.5	12	12153
POCD4510A	45+10	12	12136
POCD4515A	45+15	12	12137
POCD505A	50+5	12	12138
POCD555A	55+5	12	12154
POCD5575A	55+7.5	12	12155
POCD605A	60+5	12	12139
POCD6075A	60+7.5	16	12156
POCD6010A	60+10	12	12157

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

Can Size	Depth (In.)	Width (In.)	Height (In.)
Can Dimension			
1	2.00	1.25	1.50
2	2.00	1.25	2.19
3	2.00	1.25	2.69
4	2.00	1.25	2.88
5	2.00	1.25	3.25
6	2.75	1.75	2.38
7	2.75	1.75	2.75
8	2.75	1.75	3.13
9	2.75	1.75	3.25
10	2.75	1.75	3.75
11	2.75	1.75	3.88
12	2.75	1.75	4.25
13	2.75	1.75	4.75
14	3.50	2.00	2.75
15	3.50	2.00	3.25
16	3.50	2.00	3.75
17	3.50	2.00	4.25
18	3.50	2.00	4.75
19	3.50	2.00	5.88

Dual Section - Oval

Item ID	MFD	Can Size	Industry No.
Titan HD 440 Volt			
POCFD105A	10+5	6	12165
POCFD154A	15+4	6	12270
POCFD155A	15+5	7	12271
POCFD1510A	15+10	7	12177
POCFD205A	20+5	7	12180
POCFD2015A	20+15	10	12083
POCFD255A	25+5	9	12184
POCFD2575A	25+7.5	10	12182
POCFD2510A	25+10	9	12183
POCFD2515A	25+15	10	12186
POCFD304A	30+4	10	12181
POCFD305A	30+5	10	12187
POCFD3075A	30+7.5	10	12038
POCFD3010A	30+10	10	12035
POCFD353A	35+3	12	12085
POCFD354A	35+4	10	12179
POCFD355A	35+5	17	12185
POCFD3575A	35+7.5	12	12188
POCFD3510A	35+10	12	12272
POCFD403A	40+3	13	12080
POCFD405A	40+5	13	12086
POCFD4075A	40+7.5	17	12189
POCFD4010A	40+10	12	12273
POCFD455A	45+5	18	12190
POCFD4575A	45+7.5	18	12274
POCFD505A	50+5	19	12108
POCFD5075A	50+7.5	18	12013
POCFD555A	55+5	19	12275
POCFD5510A	55+10	19	12276
POCFD605A	60+5	19	12109
POCFD6510A	65+10	19	12101
POCFD805A	80+5	19	12297
POCFD8075A	80+7.5	19	12298

ELECTRICAL



TITAN HD™ Round Motor Run Capacitors

Can Size	Diameter (In.)	Height (In.)
1	1.75	2.25
2	1.75	2.75
3	1.75	3.25
4	1.75	3.75
5	1.75	4.25
6	2.00	2.75
7	2.00	3.25
8	2.00	3.38
9	2.00	3.75
10	2.00	4.25
11	2.00	4.75
12	2.00	5.25
13	2.50	2.75
14	2.50	3.25
15	2.50	3.75
16	2.50	4.25
17	2.50	4.75
18	2.50	5.88



Features

- Made to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA

Single Section - Round

Item ID	MFD	Can Size	Industry No.
Titan HD 370 Volt			
PRC5A	5	2	12095
PRC7.5A	7.5	2	12097
PRC10A	10	2	12098
PRC12.5A	12.5	2	12099
PRC15A	15	2	12210
PRC17.5A	17.5	2	12212
PRC20A	20	3	12214
PRC25A	25	3	12215
PRC30A	30	6	12217
PRC31.5A	31.5	6	—
PRC35A	35	9	12218
PRC40A	40	9	12221
PRC45A	45	9	12223
PRC50A	50	9	12225
PRC55A	55	10	12226
PRC60A	60	11	12227
PRC70A	70	12	12229
PRC80A	80	11	12199
PRC100A	100	18	12116
Titan HD 440 Volt			
PRCF5A	5	1	12105
PRCF7.5A	7.5	2	12107
PRCF10A	10	2	12232
PRCF12.5A	12.5	2	12233
PRCF15A	15	3	12234
PRCF17.5A	17.5	3	12236
PRCF20A	20	4	12237
PRCF25A	25	5	12240
PRCF30A	30	9	12241
PRCF35A	35	10	12243
PRCF40A	40	10	12245
PRCF45A	45	11	12248
PRCF50A	50	12	12251
PRCF55A	55	12	12252
PRCF60A	60	11	12254
PRCF65A	65	15	—
PRCF70A	70	16	12258
PRCF80A	80	16	12259
PRCF90A	90	18	12068

Dual Section - Round

Item ID	MFD	Can Size	Industry No.
Titan HD 370 Volt			
PRCD253A	25+3	6	12242
PRCD254A	25+4	7	12175
PRCD255A	25+5	6	12261
PRCD303A	30+3	7	12244
PRCD304A	30+4	7	12263
PRCD305A	30+5	6	12264
PRCD3075A	30+7.5	7	12224
PRCD3010A	30+10	7	12228
PRCD353A	35+3	9	12082
PRCD354A	35+4	7	12231
PRCD355A	35+5	7	12266
PRCD3575A	35+7.5	7	12235
PRCD3510A	35+10	9	12238
PRCD403A	40+3	9	12074
PRCD404A	40+4	9	12267
PRCD405A	40+5	9	12178
PRCD4075A	40+7.5	7	12268
PRCD4010A	40+10	9	12246
PRCD453A	45+3	9	12073
PRCD455A	45+5	9	12269
PRCD4575A	45+7.5	9	12249
PRCD4510A	45+10	10	12250
PRCD503A	50+3	13	12075
PRCD505A	50+5	13	12191
PRCD5075A	50+7.5	13	12192
PRCD5010A	50+10	14	12239
PRCD555A	55+5	14	12193
PRCD5575A	55+7.5	14	12194
PRCD5510A	55+10	14	12067
PRCD605A	60+5	14	12195
PRCD6075A	60+7.5	14	12196
PRCD6010A	60+10	14	12265
PRCD805A	80+5	15	12197
PRCD8075A	80+7.5	16	12198
PRCD8010A	80+10	15	12201
PRCD80125A	80+12.5	16	12202

Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

Dual Section - Round

Item ID	MFD	Can Size	Industry No.
Titan HD 440 Volt			
PRCFD105A	10+5	6	12111
PRCFD205A	20+5	9	12115
PRCFD2015A	20+15	8	12112
PRCFD253A	25+3	7	—
PRCFD255A	25+5	7	12278
PRCFD2575A	25+7.5	9	12279
PRCFD2510A	25+10	9	12113
PRCFD2515A	25+15	11	12114
PRCFD303A	30+3	10	12126
PRCFD304A	30+4	7	12120
PRCFD305A	30+5	7	12281
PRCFD3075A	30+7.5	10	12282
PRCFD353A	35+3	11	12077
PRCFD354A	35+4	10	12070
PRCFD355A	35+5	13	12283
PRCFD356A	35+6	10	12119
PRCFD3575A	35+7.5	16	12284
PRCFD3510A	35+10	7	—
PRCFD403A	40+3	14	12078
PRCFD404A	40+4	14	12285
PRCFD405A	40+5	14	12286
PRCFD406A	40+6	14	12220
PRCFD4075A	40+7.5	14	12287
PRCFD4010A	40+10	7	—
PRCFD453A	45+3	14	12079
PRCFD455A	45+5	14	12288
PRCFD456A	45+6	15	12127
PRCFD4575A	45+7.5	15	12289
PRCFD4510A	45+10	7	—
PRCFD505A	50+5	15	12290
PRCFD5075A	50+7.5	15	12291
PRCFD555A	55+5	15	12292
PRCFD5575A	55+7.5	16	12293
PRCFD5510A	55+10	16	12799
PRCFD605A	60+5	15	12294
PRCFD6075A	60+7.5	15	12295
PRCFD6010A	60+10	15	12296
PRCFD60125A	60+12.5	17	12161
PRCFD705A	70+5	17	12255
PRCFD7075A	70+7.5	17	12166
PRCFD7010A	70+10	17	12169
PRCFD805A	80+5	17	12257
PRCFD8075A	80+7.5	17	12216
PRCFD8010A	80+10	18	12117

Packard Dry AC Motor Run Capacitors



Features

- Commonly used on motors in fans, pumps and blowers
- Constructed with Self-Healing Dielectric Metalized Polypropylene Film
- 1/4 inch blade quick connect terminals; Metal tab mounting bracket
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/-5%
- Protected 10,000 AFC
- Available in 370 and 440 Volt
- 50/60 Hertz
- Plastic ABS case
- UL recognized
- RoHS compliant

Item ID	MFD	VAC	Hertz	Shape	Height (In.)	Length (In.)	Width (In.)	Weight (Lbs)	Terminals	Temp. Range (C)	Construction	For Use With
Packard												
PDC2	2	370	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC3	3	370	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC4	4	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC5	5	370	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC7.5	7.5	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC8	8	370	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC10	10	370	50/60	Rectangle	2.44	1.25	2.36	0.10	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC12.5	12.5	370	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDC15	15	370	50/60	Rectangle	2.44	1.25	2.36	0.13	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF2	2	440	50/60	Rectangle	1.80	0.79	1.50	0.05	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF3	3	440	50/60	Rectangle	1.80	0.79	1.50	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF4	4	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF5	5	440	50/60	Rectangle	2.00	0.94	2.00	0.06	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF7.5	7.5	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF8	8	440	50/60	Rectangle	2.20	1.10	1.92	0.09	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF10	10	440	50/60	Rectangle	2.44	1.25	2.36	0.11	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF12.5	12.5	440	50/60	Rectangle	2.44	1.25	2.36	0.12	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors
PDCF15	15	440	50/60	Rectangle	2.44	1.25	2.36	0.14	2 Blade quick connect	-40 to 85	Plastic ABS case	Electric motors

Lighting Capacitors: Oil-Filled And Dry AC Film For HID Lighting Applications

Applications

- High Intensity Discharge (HID) lighting applications
- Other high voltage ballast applications

Features - Oil-filled AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant
- UL and CSA recognized
- Epoxidized Soybean Oil (ESO) filled
- Round and oval metal case
- Capacitance from 10 µf to 35 µf
- Voltage ranges from 330 VAC to 525 VAC
- Operating temperature to 90°C

Features - Dry AC Film Capacitor

- Constructed with specially formulated metallized polypropylene film
- Designed to operate in the high temperature environments found in typical HID lighting fixtures
- Endsprayed with zinc
- Manufactured to EIA-456A
- ROHS compliant
- UL and CSA recognized
- Filled with epoxy
- Round plastic case
- Capacitance from 7 µf to 55 µf
- Voltage ranges from 240 VAC to 400 VAC
- Operating temperature to 105°C
- 8 inch, 18 AWG standard copper wire leads with UL listed insulation rated for 150°C
- Made in USA



Oil-Filled AC Film



Dry AC Film

Item ID	MFD	Volts	Hertz	Shape	Diameter (In.)	Height (In.)	Width (In.)	Depth (In.)
Packard								
PLCR10400W	10	400	50/60	Round	1.75	2.38	—	—
PLCO10400W	10	400	50/60	Oval	—	2.75	2.5	1.5
PLCO15400W	15	400	50/60	Oval	—	2.75	2.75	1.75
PLCR15400W	15	400	50/60	Round	1.75	2.88	—	—
PLCO24400W	24	400	50/60	Oval	—	3.13	2.75	1.75
PLCR24400W	24	400	50/60	Round	1.75	3.75	—	—
PLCO24480W	24	480	50/60	Oval	—	3.88	2.75	1.75
PLCO26525W	26	525	50/60	Oval	—	4.25	2.75	1.75
PLCO35330W	35	330	50/60	Oval	—	3.13	2.75	1.75
PLCR7330D	7	330	60	Round	1.18	2.68	—	—
PLCR10300D	10	300	50/60	Round	1.58	2.68	—	—
PLCR10330D	10	330	60	Round	1.58	2.68	—	—
PLCR10400D	10	400	60	Round	1.58	3.62	—	—
PLCR12330D	12	330	60	Round	1.58	2.68	—	—
PLCR15400D	15	400	50/60	Round	1.58	3.62	—	—
PLCR24400D	24	400	50/60	Round	1.77	4.61	—	—
PLCR55240D	55	240	60	Round	1.77	3.62	—	—

Maximum dependability in a “one for one” replacement for the Furnas DP contactor and many more.



Features

- Universal metal mounting plate allows for complete ease of replacement
- Long electrical life tested to 250,000 cycles
- Reliable mechanical life tested to 1,000,000 cycles
- EE magnet assembly assures optimal performance without sacrificing power consumption
- Performance unaffected by mounting position
- Flexible termination options suitable for various applications
- Dust-free internal construction
- OEM approved
- Meets the ARI 780/790 standard

Item ID	F/L Inductive Amps	Locked Rotor Amps 240/277/480/600	Resistive Amps	Coil Voltage	Industry No.	Furnas Replacement	
Titan Max 1 Pole							
TMX125A	25	150	35	24	61315	45DG10AJA	
TMX125B	25	150	35	120	61316	45DG10AFA	
TMX125C	25	150	35	208/240	61317	45DG10AGA	
TMX130A	30	180/150/120	40	24	61320	45EG10AJA	45EG10AJAL
TMX130B	30	180/150/120	40	120	61321	45EG10AFA	
TMX130C	30	180/150/120	40	208/240	61322	45EG10AGA	
TMX140A	40	240/200	50	24	61330	45GG10AJA	45GG10AJAL
TMX140B	40	240/200	50	120	—	45GG10AFA	45GG10AFAL
TMX140C	40	240/200	50	208/240	—	45GG10AGA	
Titan Max 2 Pole							
TMX225A	25	150/125/100	35	24	61410	42AF15AJ	45DG20AJ
TMX225B	25	150/125/100	35	120	61411	42AF15AF	45DG20AF
TMX225C	25	150/125/100	35	208/240	61412	42AF15AG	45DG20AG
TMX230A	30	180/150/120	40	24	61425	42BF15AJ	45EG20AJ 45EG20AJL
TMX230B	30	180/150/120	40	120	61426	42BF15AF	45EG20AF 45EG20AFL
TMX230C	30	180/150/120	40	208/240	61427	42BF15AG	45EG20AG 45EG20AGL
TMX240A	40	240/200/160	50	24	61440	42CF15AJ	45GG20AJ 45GG20AJL
TMX240B	40	240/200/160	50	120	61441	42CF15AF	45GG20AFL
TMX240C	40	240/200/160	50	208/240	61442	42CF15AG	45GG20AG 45GG20AGL
Titan Max 3 Pole							
TMX330A	30	180/150/120	40	24	61430	42BF35AJ	
TMX330B	30	180/150/120	40	120	61431	42BF35AF	
TMX330C	30	180/150/120	40	208/240	61432	42BF35AG	
TMX340A	40	240/200/160	50	24	61445	42CF35AJ	
TMX340B	40	240/200/160	50	120	61446	42CF35AF	
TMX340C	40	240/200/160	50	208/240	61447	42CF35AG	
TMX350A	50	300/250/200	63	24	61460	42DF35AJ	
TMX350B	50	300/250/200	63	120	61461	42DF35AF	
TMX350C	50	300/250/200	63	208/240	61462	42DF35AG	
TMX360A	60	360/300/240	75	24	61470	42EF35AJ	
TMX360B	60	360/300/240	75	120	61471	42EF35AF	
TMX360C	60	360/300/240	75	208/240	61472	42EF35AG	
TMX375A	75	450/375/300	94	24	61480	42FE35AJ106	
TMX375B	75	450/375/300	94	120	61481	42FE35AF106	
TMX375C	75	450/375/300	94	208/240	61482	42FE35AG106	
TMX390A	90	540/450/360	120	24	61490	42GE35AJ106	
TMX390B	90	540/450/360	120	120	61491	42GE35AF106	
TMX390C	90	540/450/360	120	208/240	61492	42GE35AG106	

Definite Purpose Contactors



Features

Contactors meet UL508 specifications for devices up to 600 VAC.

- 50/60 Hertz • US
- Coils have class B insulation
- Includes lugs, spade terminals and covers

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage
Packard 1 Pole					
C125A	1	25	150/125/100	30	24
C125B	1	25	150/125/100	30	120
C125C	1	25	150/125/100	30	208/240
C130A	1	30	180/150/120	40	24
C130B	1	30	180/150/120	40	120
C130C	1	30	180/150/120	40	208/240
C140A	1	40	240/200/160	50	24
C140B	1	40	240/200/160	50	120
C140C	1	40	240/200/160	50	208/240
Packard 2 Pole					
C220A	2	20	120/100/80	30	24
C220B	2	20	120/100/80	30	120
C220C	2	20	120/100/80	30	208/240
C225A	2	25	150/125/100	35	24
C225B	2	25	150/125/100	35	120
C225C	2	25	150/125/100	35	208/240
C230A	2	30	180/150/120	40	24
C230B	2	30	180/150/120	40	120
C230C	2	30	180/150/120	40	208/240
C230D *	2	30	180/150/120	40	208/240
C230E	2	30	180/150/120	40	277
C240A	2	40	240/200/160	50	24
C240B	2	40	240/200/160	50	120
C240C	2	40	240/200/160	50	208/240
C240E	2	40	240/200/160	50	277

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage
Packard 3 Pole					
C325A	3	25	150/125/100	35	24
C325B	3	25	150/125/100	35	120
C325C	3	25	150/125/100	35	208/240
C330A	3	30	180/150/120	40	24
C330B	3	30	180/150/120	40	120
C330C	3	30	180/150/120	40	208/240
C330E	3	30	180/150/120	40	277
C330F	3	30	180/150/120	40	480
C340A	3	40	240/200/160	50	24
C340B	3	40	240/200/160	50	120
C340C	3	40	240/200/160	50	208/240
C340E	3	40	240/200/160	50	277
C340F	3	40	240/200/160	50	480
C350A	3	50	300/250/200	65	24
C350B	3	50	300/250/200	65	120
C350C	3	50	300/250/200	65	208/240
C350F	3	50	300/250/200	65	480
C360A	3	60	360/300/240	75	24
C360B	3	60	360/300/240	75	120
C360C	3	60	360/300/240	75	208/240
C360F	3	60	360/300/240	75	480
C375A	3	75	450/375/300	90	24
C375B	3	75	450/375/300	90	120
C375C	3	75	450/375/300	90	208/240
C390A	3	90	540/450/360	120	24
C390B	3	90	540/450/360	120	120
C390C	3	90	540/450/360	120	208/240

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage
Packard 4 Pole					
C430A	4	30	180/150/120	40	24
C430B	4	30	180/150/120	40	120
C430C	4	30	180/150/120	40	208/240
C430F	4	30	180/150/120	40	480
C440A	4	40	240/200/160	50	24
C440B	4	40	240/200/160	50	120
C440C	4	40	240/200/160	50	208/240
C440F	4	40	240/200/160	50	480

Notes:
* Spade terminals and cover only.

Magnetic Contactor



Item ID	C18001
Type	DPST N.O.
Resistive Amps	30
Full Load Amps	30
Locked Rotor Amps	120
Coil Voltage	24
Hertz	50/60
Maximum Surrounding Air Temp.	40°C
Phase	Single

Replaces

3ARR8E4 MC11 18001
90-230

Auxiliary Switches For TITAN MAX Contactors

Features

- Universal - for use on all 3 pole contactors.



C03A01
C03A02
C03A10
C03A11
C03A20



C03M01
C03M10
C03M11

Item ID	Type
TITAN MAX Auxiliary Contact Blocks with Quick Connect	
C03A01	1NC
C03A10	1NO
C03A02	2NC
C03A20	2NO
C03A11	1NC + 1NO
TITAN MAX Microswitch Blocks	
C03M10	SPDT at position 1
C03M01	SPDT at position 2
C03M11	2PCS SPDT

Auxiliary Switches For Packard Contactors



P6S



P7S



P8S
P9S



MI1



AC3



AC4



Item ID	Type	Amps
Packard		
P6S	SPDT	30-40
P7S	SPDT	30-40
P8S	SPDT	50-60
AC4	1 SPDT	50-60
P9S	SPDT	70-90
MI1	Mechanical Interlock	20-40
AC3	NO/NC	20-60
P38K	Includes P8S and AC3	

Contactors Replacement Coils For Packard Contactors

3 Pole Contactor Replacement Coils



Coil Voltage: 20-40



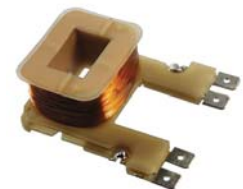
Coil Voltage: 50-60



Coil Voltage: 75-90

Item ID	Poles	Coil Voltage	Full Load Amps
Packard 3 Pole			
C32040A	3	24	20-40
C32040B	3	120	20-40
C32040C	3	208/240	20-40
C32040D	3	277	20-40
C32040E	3	480	20-40
C35060A	3	24	50-60
C35060B	3	120	50-60
C35060C	3	208/240	50-60
C35060D	3	277	50-60
C35060E	3	480	50-60
C37590B	3	120	75-90
C37590C	3	208/240	75-90

4 Pole Contactor Replacement Coils



Item ID	Poles	Coil Voltage	Full Load Amps
Packard 4 Pole			
C42040A	4	24	20-40
C42040B	4	120	20-40
C42040C	4	208/240	20-40
C42040D	4	277	20-40

Class II Foot Mount Transformers



Features

- Packard transformers replace models with equal or lower VA rating
- Foot mount
- UL listed class II transformers

Item ID	Primary Voltage	Secondary Rating	Output Option	Mounting Option	Connection	Replaces	Notes
Packard							
PF12416	120	16	10VA	Foot	Wire Lead / Term	UET 10A	
PF42420	120/208-240	24	20VA	Foot	Wire Lead	Jard 2031F UET 114	
PF24200	120	24	20VA	Foot	Wire Lead / Term		
PF40224	208-240	24	40VA	Foot	Terminals		
PF105	120/208-240	24	40VA	Foot	Wire Lead	UET 105	115
PF4031VM	120	24	40VA	Foot	Wire Lead	Jard 4031VM	
PF12440	120	24	40VA	Foot	Wire Lead	Jard 4011F	
PF12450	120	24	50VA	Foot	Wire Lead		
PF22440	208-240	24	40VA	Foot	Wire Lead	Jard 4021F	
PF113	120	24	40VA	Foot	Terminal and Wire Lead	90-113 Fan Center Transformer	
PF42440	120/208-240	24	40VA	Foot	Wire Lead	Jard 4031F UET 115	
PF4031OEM	120/208/240	24	40VA	Foot	Terminals	Jard 4031OEM	
PF32440	120/208-240	24/12/2.5	40VA	Foot	Wire Lead	Jard 4032F UET 101	118
PF27440	277	24	40VA	Foot	Wire Lead	Jard 40271F	
PF40350	120/208/240	24	50VA	Foot	Wire Lead	Jard 5031F	
PF42450	120/208/240/480	24	50VA	Foot	Wire Lead	Jard 5041C	117
PF52460	120/208-240	24	60VA	Foot	Wire Lead	Jard 6041C UET 160	117
PF52475	120/208-240/480	24	75VA	Foot	Wire Lead	Jard 7541C UET 179R	117
PF52475F	120/208-240/480	24	75VA	Foot	Wire Lead	Jard 7541M UET 175	118
PF524100	120/208-240/480	24	100VA	Foot	Wire Lead	Jard 10041C	117

Notes: 115. Dimension between mounting holes is 2.756 inch or 70mm 117. Equipped with a circuit breaker 118. Built-In fuse included

Class II Multi-Mount Transformers



Features

- Packard transformers replace models with equal or lower VA rating
- Multi-mount transformers
- 4 1/4" x 4 1/4" mounting plate included
- 1/2" conduit hub for electrical knockout mounting
- UL listed class II transformers

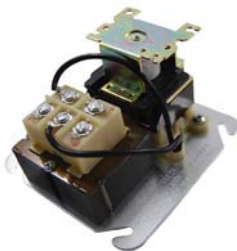
Item ID	Primary Voltage	Secondary Rating	Output Option	Mounting Option	Connection	Replaces	Notes
Packard							
PM12040	120	24	40VA	Plate	Wire Lead/Term		
PM12440	120	24	40VA	Multi	Wire Lead	Jard 4011M UET 112	
PM32440	208-240	24	40VA	Multi	Wire Lead	Jard 4021M UET 113	
PM42440	120/208-240	24	40VA	Multi	Wire Lead	Jard 4031M	
PM43440	120/208-240	24/12/2.5	40VA	Multi	Wire Lead	UET 111	118
PM43448	120/208-240	24/12/2.5	48VA	Multi	Wire Lead		
PM44450	120/208-240	24	50VA	Multi	Wire Lead/Term	Jard 5031M UET 150	118
PM43450	120/208-240	24/12/2.5	50VA	Multi	Wire Lead	Jard 5032M	
PM10048P	208/240/480	24/120	100VA	Multi	Wire Lead	Jard 10048P	
PM7541MCB	120/208/240/480	24	75VA	Multi	Wire Lead	Jard 7541MCB	117

Notes:

117. Equipped with a circuit breaker

118. Built-In fuse included

Fan Control Centers



Features

- UL recognized 40 VA transformer
- Color coded leads
- Low voltage terminal board

Item ID	Primary Voltage	Primary Connections	Secondary Voltage	Secondary Connections	Relay	Replaces
Packard						
FC90112	120	Leads	24	Terminal Board	DPDT	White-Rodgers 90-112
FC90113	120	Leads	24	Terminal Board	SPDT	White-Rodgers 90-113
FC90118	120	Leads	24	Terminal Board	SPNO/SPNC	White-Rodgers 90-118E
FC90119	208/240	Leads	24	Terminal Board	SPDT	White-Rodgers 90-119
FC90130	120/208/240	Leads	24	Terminal Board	DPDT	White-Rodgers 90-130

Potential Relays



Features

- Temperature range: 40°F to 130°F
- Class B insulation
- Continuous duty
- UL and CSA recognized

Item ID	Continuous Coil Voltage	Pick-Up Min.	Pick-Up Max.	Drop Out Max.	DC Res	Coil Data MA	Nom. VA	Inrush VA	Class Insulation	Replaces
Packard										
PR9026	395	180	195	100	7147	12.7	5	10	B	90-26
PR9063	170	140	153	65	1399	29	5	10	B	90-63
PR9064	395	245	275	140	7147	12.7	5	10	B	90-64
PR9065	332	171	184	90	5180	15	5	10	B	90-65
PR9066	395	208	239	130	7147	12.7	5	10	B	90-66
PR9067	420	300	328	121	10000	12	5	10	B	90-67
PR9068	495	323	352	135	11950	10	5	10	B	90-68
PR9071	420	223	252	150	10000	12	5	10	B	90-71
PR9169	332	180	193	105	5600	12	5	10	B	90-69

Direct Replacement Relays For ICP And Nordyne



PR1922



PR1931

Features

- Electric heater relay
- Used with AMF(K,H)xxCxx heaters in ICP air handlers

Item ID	Continuous Coil Voltage	Pick-Up Min.	Pick-Up Max.	Drop Out Max.	Coil	Replaces
Packard						
PR1922	28.6	16.5	22	2.2	DC	ICP 111001922 ICP 1084529
PR1931	31.2	18	24	7.2	AC	Nordyne 621931

Time Delay Relays



PTD102
Delay on Make



PTD203
Delay on Break

Application

- Prevents short cycling of air conditioning, refrigeration and heat pump compressors

Features

- Universal voltage
- Adjustable up to 10 minutes
- Mounts in any position
- Easy two-wire installation
- UL and CSA recognized
- Delay on make / delay on break

Item ID	Connection	Time Delay	Input Line Frequency	Input Line Voltage	Output Ratings Inrush	Output Ratings Max.	Output Ratings Min.	Replaces
Packard								
PTD102	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/VDC	15 amps	1.5 amps	40 mA	Carrier P284-2391 Gemline IC213 Gemline IC310 ICM 102B ICM 102FB ICP 1160706 Lennox 24C4101 Lennox 47A7301 McQuay 282101B14 McQuay 282101B2 McQuay 282101B3 Rheem 42-22326-01 Rheem 42-41542-01 3310-068 ADM-2
PTD203	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/VDC	15 amps	1.5 amps	40 mA	A-1 Components F7035 Carrier P284-2392 ICM 203B ICP 1160708 ICP 1160711 3310-072 Trane TMR107 Trane TMR52 ADB-1

SPST And SPDT Fan Relays

Features

- 1/4" Quick connect terminals
- Used for switching solenoids, fan motors, and other applications.



Item ID	Description	Amps Res.	FLA/LRA at		Coil Voltage	Replaces
			125 Volts	250 Volts		
Packard						
PR290Q	SPST-NO	18	12/60	8/48	24 VAC	90-290Q
PR291Q	SPST-NO	18	12/60	8/48	120 VAC	90-291Q
PR292Q	SPST-NO	18	12/60	8/48	240 VAC	90-292Q
PR293Q	SPDT	18	12/60	8/48	24 VAC	90-293Q
PR294Q	SPDT	18	12/60	8/48	120 VAC	90-294Q
PR295Q	SPDT	18	12/60	8/48	240 VAC	90-295Q
PR360	SPST-NO	18	12/60	8/48	24 VAC	90-360
PR362	SPST-NO	18	12/60	8/48	120 VAC	90-362
PR370	SPDT	18	12/60	8/48	24 VAC	90-370
PR372	SPDT	18	12/60	8/48	120 VAC	90-372
PR374	SPDT	18	12/60	8/48	240 VAC	90-374
PR380	SPST NO + NC	18	12/60	8/48	24 VAC	90-380
PR382	SPST NO + NC	18	12/60	8/48	120 VAC	90-382
PR384	SPST NO + NC	18	12/60	8/48	240 VAC	90-384

Switching Relays

Features

- Used on heat pumps, vending machines, fans, and heating and air conditioning



Item ID	Coil Voltage	Description	Terminal 1-2-3	Terminal 4-5-6	Replaces
Packard					
PR340	24	DPDT	Power	Power	90-340
PR341	110/120	DPDT	Power	Power	90-341
PR342	208/240	DPDT	Power	Power	90-342
PR343	24	DPDT	Power	Pilot	90-343
PR344	110/120	DPDT	Power	Pilot	90-344
PR345	208/240	DPDT	Power	Pilot	90-345

Relay Overloads

Features

- Replaces relay and overload combinations on 1/8 thru 1/3 HP compressors.



Item ID	Volts	H.P.	Hertz
Packard			
RO15	115	1/8-1/5	50/60
RO13	115	1/4 and 1/3	50/60

Adjustable Thermostats

Applications

- Covers approximately 95% of the hundreds of different temperature ranges and styles used on dryers and heating applications

Features

- Dial knob
- 1/4" quick connect terminals
- UL recognized and CSA certified



Item ID	Switch Action	Switch Type	Temp. Range	Differential	Volts	Amps	Hertz	Replaces
Packard Limit Controls								
PT012	Open On Rise	SPST	135°F to 175°F	40°F	250	25	50/60	AT012 39220 3L05-1
PT013	Open On Rise	SPST	175°F to 215°F	40°F	250	25	50/60	AT013 39225 3L05-2
PT014	Open On Rise	SPST	210°F to 250°F	40°F	250	25	50/60	AT014 39230 3L05-4
PT015	Open On Rise	SPST	250°F to 290°F	40°F	250	25	50/60	AT015 39235 3L05-13
Packard Fan Controls								
PT021	Close On Rise	SPST	90°F to 130°F	20°F	250	25	50/60	AT021 39205 3F05-1
PT022	Close On Rise	SPST	140°F to 180°F	20°F	250	25	50/60	AT022 39210 3F05-2

Air Conditioning Disconnect Boxes



- | | |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Item ID | PDB30F |
| <ul style="list-style-type: none"> 30 amp A/C disconnect box Outdoor enclosure Metal UL US | <ul style="list-style-type: none"> Fused 240 VAC Single phase Flip top door Nema type 3R |

Replaces

- | | |
|------------------|------------------|
| DDS-30 | 83316 |
| MA-Line MA-FD30A | Square D 755-30F |



- | | |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Item ID | PDB60F |
| <ul style="list-style-type: none"> 60 amp A/C disconnect box Outdoor enclosure Metal UL US | <ul style="list-style-type: none"> Fused 240 VAC Single phase Flip top door Nema type 3R |

Replaces

- | | |
|------------------|------------------|
| DDS-60 | 83317 |
| MA-Line MA-FD60A | Square D 755-60F |



- | | |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Item ID | PDB60NF |
| <ul style="list-style-type: none"> 60 amp A/C disconnect box Outdoor enclosure Metal UL US | <ul style="list-style-type: none"> Non-fused 240 VAC Single phase Flip top door Nema type 3R |

Replaces

- | | |
|-------------------|-------------------|
| DDS-60U | 83315 |
| MA-Line MA-NFD60A | Square D 755-60NF |

Packard Whips

Applications

- Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment

Features

- 600 volt; Intended for 208/240/480 volt single phase circuits
- 12" conductor leads with 1/2" insulation stripped
- Stranded copper THHN/THWN insulated singles; Green insulated copper grounded conductor
- Highly flexible non-metallic conduit with factory installed conductors
- Liquid tight flexible non-metallic conduit type B (LFNC-B) fittings for easy and hassle-free hook-ups
- Straight connector on one end and 90 degree connector on the other end
- Complete assembly delivered from the factory ready to install
- Non-metallic raceway is non-conducting and resistant to rust, cracks, and separation



Item ID	Trade Size (In.)	Conduit Length (feet)	Wire Size # of Cond.	Amps
Packard				
PW1206	1/2"	6	#10 AWG	30
PW3486	3/4"	6	#8 AWG	40

Color Coding	
No. of conductors	Color sequence 120/208Y
2	black, red
Grounding Conductor	green

Eco Alkalines™ : The Eco-Responsible Batteries



ECOOA4



ECOAAA4



ECOOA8



ECO91



ECOC2



ECOD2



ECOOA24



ECOAAA24



ECO9V12



ECOC12



ECOD12

By purchasing Eco Alkalines™, you're doing your part to reduce CO2 and climate change impact brought about by the production, distribution and disposal of alkaline batteries.

- World's first and only certified carbon neutral batteries
- No trace amounts of harmful metals: Cadmium, lead or mercury
- Manufactured with recycled materials and contains 98% recyclable contents
- Landfill safe if recycling is not an option
- Certified Carbon Neutral by Carbonfund.org and NSF Sustainability



Item ID	Type	Pack size	Master Pack
Eco Alkalines Batteries			
ECOOA4	AA	4	12 PK
ECOAAA4	AAA	4	16 PK
ECOOA8	AA	8	5 PK
ECO91	9V	1	10 PK
ECOC2	C	2	7 PK
ECOD2	D	2	5 PK
Eco Alkalines Batteries BULK Package			
ECOOA24	AA	24	—
ECOAAA24	AAA	24	—
ECO9V12	9V	12	—
ECOC12	C	12	—
ECOD12	D	12	—



With Revcor, finding the OEM qualified replacement fan blade is...

...a Breeze.

Since 1946 Revcor has designed and manufactured some of the most reliable and innovative fan blades for the residential and commercial OEM market. Today Revcor fan blades are used by roughly **80%** of the OEM market; every new model requires a unique fan design and each one is carefully selected and qualified by the OEM after hours of rigorous design and testing. Protect the longevity of your repair with the **qualified** OEM replacement blade!



OEM Direct Replacements

OEM Brand	OEM Part number	Item ID
Revcor		
CARRIER	LA01EA025	R32213
CARRIER	LA01EA026	R21801
CARRIER	LA01EA037	R32205
CARRIER	LA01EA038 / LA01EA037	R32206
CARRIER	LA01EC018	R31821
CARRIER	LA01EW051	R31404
CARRIER	LA01RA004	R32603
CARRIER	LA01RA005	R32607
CARRIER	LA01RA006	R32610
CARRIER	LA01RA015	R31811
CARRIER	LA01RA027	R32202
CARRIER	LA01RA028B	R32208
CARRIER	LA01RA033	R32017
CARRIER	LA01RA038A	R32215
CARRIER	LA01RA220	R22001
CARRIER	LA01RA221	R22002
CARRIER	LA01RA222	R22401
CARRIER	LA01RA225	R22402
CARRIER	LA01RA312	R32402
CARRIER	LA01RA320	R32004
CARRIER	LA01RA321	R32008
CARRIER	LA01RA323	R32409
CARRIER	LA01RA324	R32406
CARRIER	LA01RA325	R32401
CARRIER	LA01RA326	R32602
CARRIER	LA01RA327	R32605
CARRIER	LA01RA329	R32606
CARRIER	LA01RA334	R32601
GOODMAN	10625738	R32604
GOODMAN	0150M00001P	R32009
GOODMAN	0150M00016	R32204

OEM Brand	OEM Part number	Item ID
Revcor		
GOODMAN	B1086756	R31815
GOODMAN	B1086764	R42201
GOODMAN	B1086765	R42209
GOODMAN	B1086770	R32201
GOODMAN	B1086771	R31816
GOODMAN	B1086773	R32209
GOODMAN	B1086775 / 0150M00006	R32216
LENNOX	100060-09 / 68J2801	R41812
LENNOX	100060-10	R42210
LENNOX	100060-13	R42204
LENNOX	37L4801	R31604
LENNOX/ALLIED AIR	68J2601 / 100060-07	R31807
LENNOX/ALLIED AIR	68J2701 / 100060-08	R41805
LENNOX/EXCEL	100060-18	R32204
LENNOX/EXCEL	20391102	R31817
LENNOX/EXCEL	100060-03	R31810
LENNOX/EXCEL	100060-19	R32212
NORDYNE	667303	R32406
NORDYNE	6672790	R32003
NORDYNE	667261C	R31801
NORDYNE	667262B	R31814
NORDYNE	667316A	R32403
NORDYNE	667319A	R22405
RHEEM	702185906	R22201
RHEEM	7010132314	R31781
RHEEM	7010132315	R21781
RHEEM	7010201106	R32010
RHEEM	7010201107	R22204
RHEEM	70-102011-04	R22406
TRANE	D154218P38 / D154218P37	R22701
TRANE	D154229P01	R31901
TRANE	D154229P02	R31902

Propellers With Fixed Hub - 3 Blades



Applications

- Unitary condenser, heat pumps, unit heaters, ventilators and exhaust fans

Features

- 14 to 30 inch diameters
- Highly embossed for added strength
- Factory balanced with 1/2 inch bore
- Steel spiders
- For motor speeds up to 1625 RPM

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Material
Revcor 3 Blades							
R31403	3	14	32	CW	1/2	Discharge	ALUM
R31404	3	14	38	CW	1/2	Intake	GALV
R31602	3	16	28	CW	1/2	Intake	ALUM
R31603	3	16	30	CW	1/2	Intake	ALUM
R31604	3	16	32	CCW	1/2	Intake	ALUM
R31781	3	17.8	34	CCW	1/2	Intake	GALV
R31801	3	18	19	CW	1/2	Intake	GALV
R31804	3	18	26	CW	1/2	Discharge	ALUM
R31805	3	18	26	CCW	1/2	Intake	ALUM
R31809	3	18	27	CW	1/2	Discharge	ALUM
R31807	3	18	27	CCW	1/2	Intake	GALV
R31810	3	18	27	CCW	1/2	Intake	GALV
R31811	3	18	27	CW	1/2	Intake	ALUM
R31814	3	18	30	CW	1/2	Intake	GALV
R31815	3	18	31	CCW	1/2	Intake	GALV
R31816	3	18	32	CCW	1/2	Intake	ALUM
R31817	3	18	32	CW	1/2	Intake	ALUM
R31820	3	18	33	CW	1/2	Discharge	ALUM
R31821	3	18	35	CW	1/2	Intake	ALUM
R31901	3	19	30	CCW	1/2	Intake	ALUM
R31902	3	19	32	CCW	1/2	Intake	ALUM
R32001	3	20	23	CW	1/2	Discharge	ALUM
R32003	3	20	26	CW	1/2	Intake	GALV
R32004	3	20	26	CW	1/2	Intake	ALUM
R32008	3	20	28	CW	1/2	Intake	ALUM
R32009	3	20	28	CCW	1/2	Intake	GALV
R32010	3	20	29	CCW	1/2	Intake	GALV
R32014	3	20	31	CW	1/2	Discharge	ALUM
R32017	3	20	34	CW	1/2	Intake	ALUM
R32201	3	22	19	CCW	1/2	Intake	ALUM
R32202	3	22	20	CW	1/2	Intake	GALV
R32203	3	22	20	CW	1/2	Intake	ALUM

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Material
Revcor 3 Blades							
R32204	3	22	22	CCW	1/2	Intake	ALUM
R32207	3	22	24	CW	1/2	Discharge	GALV
R32205	3	22	24	CW	1/2	Intake	GALV
R32206	3	22	24	CW	1/2	Intake	ALUM
R32208	3	22	24	CW	1/2	Intake	GALV
R32209	3	22	24	CCW	1/2	Intake	ALUM
R32212	3	22	27	CW	1/2	Intake	ALUM
R32213	3	22	28	CW	1/2	Intake	ALUM
R32214	3	22	28	CW	1/2	Intake	ALUM
R32215	3	22	28	CW	1/2	Intake	GALV
R32216	3	22	28	CCW	1/2	Intake	ALUM
R32221	3	22	33	CW	1/2	Intake	ALUM
R32401	3	24	18	CW	1/2	Intake	GALV
R32402	3	24	19	CW	1/2	Intake	GALV
R32403	3	24	20	CW	1/2	Intake	GALV
R32404	3	24	22	CW	1/2	Intake	ALUM
R32405	3	24	22	CCW	1/2	Intake	ALUM
R32406	3	24	24	CW	1/2	Intake	GALV
R32409	3	24	26	CW	1/2	Intake	GALV
R32410	3	24	30	CW	1/2	Intake	ALUM
R32601	3	26	15	CW	1/2	Intake	GALV
R32602	3	26	18	CW	1/2	Intake	ALUM
R32603	3	26	19	CW	1/2	Intake	ALUM
R32604	3	26	20	CCW	1/2	Intake	ALUM
R32605	3	26	21	CW	1/2	Intake	GALV
R32606	3	26	24	CW	1/2	Intake	GALV
R32607	3	26	24	CW	1/2	Intake	ALUM
R32608	3	26	26	CW	1/2	Discharge	ALUM
R32609	3	26	27	CW	1/2	Intake	ALUM
R32610	3	26	28	CW	1/2	Intake	ALUM
R33001	3	30	30	CW	5/8	Discharge	ALUM

Propellers With Fixed Hub - 2 Blades, 4 Blades And 5 Blades



Applications

- Unitary condenser, heat pumps, unit heaters, ventilators and exhaust fans

Features

- 14 to 30 inch diameters
- Highly embossed for added strength
- Factory balanced with 1/2 inch bore
- Steel spiders
- For motor speeds up to 1625 RPM

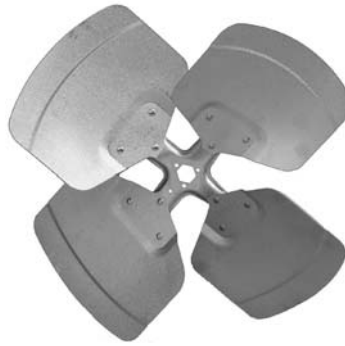
Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Material
Revcor 2 Blades							
R21402	2	14	36	CW	1/2	Discharge	ALUM
R21401	2	14	36	CCW	1/2	Intake	ALUM
R21781	2	17.8	31	CCW	1/2	Intake	GALV
R21801	2	18	20	CW	1/2	Intake	ALUM
R21802	2	18	24	CW	1/2	Intake	ALUM
R21803	2	18	29	CCW	1/2	Intake	ALUM
R21804	2	18	29	CW	1/2	Intake	ALUM
R21805	2	18	33	CCW	1/2	Intake	ALUM
R22001	2	20	20	CW	1/2	Intake	ALUM
R22002	2	20	24	CW	1/2	Intake	ALUM
R22003	2	20	29	CCW	1/2	Intake	ALUM
R22201	2	22	22	CCW	1/2	Intake	GALV
R22202	2	22	27	CCW	1/2	Intake	ALUM
R22203	2	22	29	CCW	1/2	Intake	GALV
R22204	2	22	35	CCW	1/2	Intake	GALV
R22401	2	24	16	CW	1/2	Intake	GALV
R22402	2	24	18	CW	1/2	Intake	GALV
R22403	2	24	24	CCW	1/2	Intake	ALUM
R22404	2	24	27	CCW	1/2	Intake	ALUM
R22405	2	24	27	CW	1/2	Intake	ALUM
R22406	2	24	31	CCW	1/2	Intake	GALV
R22701	2	27	28	CCW	1/2	Intake	ALUM

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Material
Revcor 4 Blades							
R41607	4	16	33	CW	1/2	Discharge	ALUM
R41805	4	18	27	CCW	1/2	Intake	GALV
R41808	4	18	30	CW	1/2	Intake	ALUM
R41811	4	18	33	CW	1/2	Discharge	ALUM
R41812	4	18	34	CCW	1/2	Intake	ALUM
R42009	4	20	33	CW	1/2	Intake	ALUM
R42010	4	20	36	CW	1/2	Intake	ALUM
R42201	4	22	22	CCW	1/2	Intake	GALV
R42205	4	22	24	CW	1/2	Discharge	ALUM
R42204	4	22	24	CCW	1/2	Intake	ALUM
R42206	4	22	26	CW	1/2	Intake	ALUM
R42209	4	22	28	CCW	1/2	Intake	GALV
R42210	4	22	32	CCW	1/2	Intake	ALUM
R42212	4	22	33	CCW	1/2	Intake	ALUM
R42404	4	24	27	CCW	1/2	Discharge	ALUM
R42604	4	26	30	CW	5/8	Discharge	ALUM
R43001	4	30	22	CW	5/8	Intake	ALUM
R43003	4	30	30	CW	5/8	Intake	GALV

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Material
Revcor 5 Blades							
R51803	5	18	33	CW	1/2	Discharge	ALUM

AIR HANDLING

Hubless Propellers



Applications

- Air conditioning condensers, power roof ventilators, heat pumps, heat exchangers, unit heaters and commercial and industrial equipment

Features

- 10 to 26 inch diameters • Steel spiders
- Highly embossed for added strength
- For motor speeds up to 1625 RPM
- For use with interchangeable hubs

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Material
Revcor 3 Blades					
R31201	3	12	19	CW	ALUM
R31202	3	12	27	CW	ALUM
R31401	3	14	23	CW	ALUM
R31402	3	14	27	CW	ALUM
R31601	3	16	23	CW	ALUM
R31802	3	18	23	CCW	ALUM
R31803	3	18	23	CW	ALUM
R31806	3	18	27	CCW	ALUM
R31808	3	18	27	CW	ALUM
R31812	3	18	30	CCW	ALUM
R31813	3	18	30	CW	ALUM
R31818	3	18	33	CCW	ALUM
R31819	3	18	33	CW	ALUM
R32002	3	20	24	CW	ALUM
R32005	3	20	27	CW	ALUM
R32006	3	20	28	CCW	ALUM
R32007	3	20	28	CW	ALUM
R32011	3	20	30	CW	ALUM
R32012	3	20	31	CCW	ALUM
R32013	3	20	31	CW	ALUM
R32015	3	20	33	CCW	ALUM
R32016	3	20	33	CW	ALUM
R32210	3	22	27	CCW	ALUM
R32211	3	22	27	CW	ALUM
R32217	3	22	30	CCW	ALUM
R32218	3	22	30	CW	ALUM
R32219	3	22	33	CCW	ALUM
R32220	3	22	33	CW	ALUM
R32407	3	24	26	CCW	ALUM
R32408	3	24	26	CW	ALUM
R32411	3	24	33	CW	ALUM

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Material
Revcor 5 Blades					
R51601	5	16	27	CCW	ALUM
R51602	5	16	33	CW	ALUM
R51801	5	18	27	CCW	ALUM
R51802	5	18	27	CW	ALUM
R52201	5	22	33	CW	ALUM
R52401	5	24	27	CW	ALUM
R52402	5	24	33	CW	ALUM

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Material
Revcor 4 Blades					
R41001	4	10	27	CW	ALUM
R41201	4	12	23	CCW	ALUM
R41202	4	12	23	CW	ALUM
R41203	4	12	27	CCW	ALUM
R41204	4	12	27	CW	ALUM
R41205	4	12	33	CW	ALUM
R41401	4	14	23	CCW	ALUM
R41402	4	14	23	CCW	ALUM
R41403	4	14	23	CW	ALUM
R41404	4	14	23	CW	ALUM
R41405	4	14	27	CCW	ALUM
R41406	4	14	27	CW	ALUM
R41407	4	14	33	CW	ALUM
R41601	4	16	23	CCW	ALUM
R41602	4	16	23	CW	ALUM
R41603	4	16	27	CCW	ALUM
R41604	4	16	27	CW	ALUM
R41605	4	16	33	CCW	ALUM
R41606	4	16	33	CW	ALUM
R41801	4	18	19	CW	ALUM
R41802	4	18	23	CCW	ALUM
R41803	4	18	23	CW	ALUM
R41804	4	18	27	CCW	ALUM
R41806	4	18	27	CW	ALUM
R41807	4	18	30	CCW	ALUM
R41809	4	18	33	CCW	ALUM
R41810	4	18	33	CW	ALUM
R42001	4	20	23	CCW	ALUM
R42002	4	20	23	CW	ALUM
R42003	4	20	27	CCW	ALUM
R42004	4	20	27	CW	ALUM
R42005	4	20	29	CCW	ALUM
R42006	4	20	29	CW	ALUM
R42007	4	20	33	CCW	ALUM
R42008	4	20	33	CW	ALUM
R42202	4	22	23	CCW	ALUM
R42203	4	22	23	CW	ALUM
R42207	4	22	27	CCW	ALUM
R42208	4	22	27	CW	ALUM
R42211	4	22	33	CW	ALUM
R42213	4	22	35	CW	ALUM
R42401	4	24	23	CCW	ALUM
R42402	4	24	23	CW	ALUM
R42403	4	24	27	CCW	ALUM
R42405	4	24	27	CW	ALUM
R42406	4	24	33	CW	ALUM
R42601	4	26	24	CW	ALUM
R42602	4	26	27	CW	ALUM
R42605	4	26	33	CW	ALUM

KH/KC Fans



Applications

- Commercial air conditioning and ventilation
- Air handlers
- Cooling towers
- Large unit heaters
- Agricultural applications

Features

- 24 to 60 inch diameters
- Highly embossed for added strength
- Steel spiders
- For motor speeds up to 1140 RPM
- Rotation determined by viewing air-discharge side of fan

Item ID	No. of Blades	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Location	Material	Replaces
Revcor KH/KC Fans Hubless								
R42408	4	24	28	CW			ALUM	40200
R42407	4	24	34	CW			ALUM	40201
R42603	4	26	28	CW			ALUM	40202
R42606	4	26	38	CW			ALUM	40203
R43002	4	30	22	CW			ALUM	40205
R43004	4	30	30	CW			ALUM	40206
R43601	4	36	32	CW			ALUM	40208
R43602	4	36	34	CW			ALUM	40209
R43603	4	36	38	CW			ALUM	40211
R44201	4	42	30	CW			ALUM	40212
R44202	4	42	38	CW			ALUM	40213
R44801	4	48	38	CW			ALUM	40216
R46001	4	60	38	CW			ALUM	40220
R42801	4	28	34	CW	5/8	Discharge	GALV	40396

* Fan should be guarded before operating.

* Tighten cap screws securely before operating.

AIR HANDLING

Plastic Blower Wheels And Impellers



A65900



A65100FB
A65216FB
A64031FB

Item ID	Bore (In.)	Diameter (In.)	Width (In.)	Bore	Replaces
Packard					
A65900	1/4	5 3/4	2	D Shape	Nutone 59000A000
A65100FB	7/32	4 9/16	—	D Shape	Nutone 68920
A65216FB	3/16	4 1/2	—	D Shape	
A64031FB	0.181	4 1/2	—	Round	

Hubs With Set & Mtg Screws



Item ID	Bore (In.)	Set Screws
Packard		
H60765801	1/4	1
L60765802	5/16	1
L60765803	3/8	1
H60765804	1/2	2
H60765805	5/8	2
H60765806	3/4	2

Shafts

1018 Cold Rolled Steel Ground & Polished



Item ID	Diameter (In.)	Length (In.)
Packard		
S38220501	5/8	20
S38209601	3/4	20
S38269301	3/4	35
S38209501	1	25
S38249201	1	35

Pitch Gauge



Item ID	Brand
PG5099801	Packard

- Used in determining the pitch of the original equipment fan blade.

Fan Blade & Blower Wheel Puller



Item ID	Brand
A89000	Packard

- Removes fan blades and blower wheels from rusty shafts
- Includes four jaws, plastic centering sleeve, hardened bolt, four set screws and instructions

2-Blade Propellers OEM Style With Fixed Hub



Applications

- For lower static pressure condensing units.
- Well-known OEMs such as, G.E., Rheem-Rudd, Singer-Climate Control, Trane, etc.

Features

- 14 to 24 inch Diameter
- High strength aluminum blades
- Each blade clearly labeled as to Pitch, Diameter, Rotation, and Maximum RPM
- Top quality, epoxy painted spiders with high salt spray characteristics
- Steel fixed hub - 1/2 " bore - exact propellers as supplied to OEMs

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
Lau 2 Blades OEM-Style with Fixed Hub						
L6130470001	14	32	CW	1/2	Discharge	2
L60743401	14	36	CW	1/2	Discharge	2
L6130500001	18	24	CW	1/2	Intake	2
L60772501	18	28	CCW	1/2	Intake	2
L6130510001	18	29	CW	1/2	Intake	2
L60652101	18	32	CCW	1/2	Intake	2
L6130520001	18	36	CW	1/2	Intake	2
L60772601	20	28	CCW	1/2	Intake	2
L6130560001	20	28	CW	1/2	Intake	2
L60772701	22	16	CCW	1/2	Intake	2
L60814201	22	27	CCW	1/2	Intake	2
L6130570001	24	19	CCW	1/2	Intake	2
L61040201	24	22	CCW	1/2	Intake	2
L6130580001	24	24	CCW	1/2	Intake	2
L60772801	24	27	CCW	1/2	Intake	2

5-Blade Propellers Heavy Duty Condenser Style



Applications

- Industrial air circulators, exhaust fan units and large condensing units

Features

- High quality aluminum blades with corrosion resistant center spiders

Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
Lau 5 Blades Heavy Duty Condenser Style					
L60720101	10	27	CW	Interchangeable	2
L60720201	10	27	CCW	Interchangeable	2
L60720401	12	19	CW	Interchangeable	2
L60720501	12	23	CW	Interchangeable	2
L60720601	12	23	CCW	Interchangeable	2
L60720701	12	27	CW	Interchangeable	2
L60720801	12	27	CCW	Interchangeable	2
L60721101	14	23	CW	Interchangeable	2
L60721201	14	23	CCW	Interchangeable	2
L60721301	14	27	CW	Interchangeable	2
L60721401	14	27	CCW	Interchangeable	2
L60560101	16	27	CW	Interchangeable	2
L60560201	16	27	CCW	Interchangeable	2
L60560301	16	33	CW	Interchangeable	2
L60560401	16	33	CCW	Interchangeable	2
L60560501	18	27	CW	Interchangeable	2
L60560601	18	27	CCW	Interchangeable	2
L60560901	20	27	CW	Interchangeable	2
L60561001	20	27	CCW	Interchangeable	2
L60561101	20	33	CW	Interchangeable	2
L60561201	20	33	CCW	Interchangeable	2
L60561301	22	27	CW	Interchangeable	2
L60561401	22	27	CCW	Interchangeable	2
L60561501	22	33	CW	Interchangeable	2
L60561601	22	33	CCW	Interchangeable	2
L60561701	24	27	CW	Interchangeable	2
L60561801	24	27	CCW	Interchangeable	2
L60561901	24	33	CW	Interchangeable	2
L60562001	24	33	CCW	Interchangeable	2
L60761301	26	27	CW	Interchangeable	1
L60761401	26	27	CCW	Interchangeable	1
L60761501	26	33	CW	Interchangeable	1
L60761601	26	33	CCW	Interchangeable	1
L6130420001	30	29	CCW	Interchangeable	1

AIR HANDLING

3-Blade Propellers Heavy Duty Condenser Style



Applications

- Air conditioning condensers
- Power roof ventilators
- Heat pumps
- Heat exchangers
- Roof top air conditioners
- Commercial and industrial equipment
- Unit heaters
- Agricultural ventilating equipment
- Walk-in refrigeration units
- General cooling/heating applications

Features

- 3-blade configuration is normally used in low pressure applications.
- Square pressure-type blades are required for most condenser applications.
- High quality aluminum blades.
- Interchangeable hubs available from 1/4" through 3/4" bore, may be attached on either intake or discharge side.
- Pitches available for most common horsepower and motor speeds up to 1725 RPM in both CW and CCW rotations.

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
Lau 3 Blades Heavy Duty Condenser Style						
L60716101	12	19	CW		Interchangeable	2
L60716201	12	19	CCW		Interchangeable	2
L60716301	12	23	CW		Interchangeable	2
L60716401	12	23	CCW		Interchangeable	2
L60716501	14	23	CW		Interchangeable	2
L60716601	14	23	CCW		Interchangeable	2
L60716701	14	27	CW		Interchangeable	2
L60716801	14	27	CCW		Interchangeable	2
L60716901	16	19	CW		Interchangeable	2
L60717001	16	19	CCW		Interchangeable	2
L60717101	16	23	CW		Interchangeable	2
L60717201	16	23	CCW		Interchangeable	2
L612980001	16	27	CCW		Interchangeable	2
L60708701	16	30	CW	1/2	Discharge	2
L60556001	18	23	CCW		Interchangeable	2
L6130610001	18	26	CW	1/2	Discharge	2
L60556101	18	27	CW		Interchangeable	2
L60556201	18	27	CCW		Interchangeable	2
L60556301	18	33	CW		Interchangeable	2
L60556401	18	30	CCW		Interchangeable	2
L60556501	18	33	CW		Interchangeable	2
L60556601	18	33	CCW		Interchangeable	2
L6130620001	18	35	CCW	1/2	Intake	2
L6129820001	20	24	CCW		Interchangeable	2
L60999001	20	25	CCW	1/2	Intake	2
L60556701	20	27	CW		Interchangeable	2
L60556801	20	27	CCW		Interchangeable	2
L60556901	20	30	CW		Interchangeable	2
L60557001	20	30	CCW		Interchangeable	2
L6130630001	20	31	CW	1/2	Discharge	2
L60557101	20	33	CW		Interchangeable	2
L60557201	20	33	CCW		Interchangeable	2
L6130640001	22	24	CW	1/2	Intake	2
L60557301	22	27	CW		Interchangeable	2
L60557401	22	27	CCW		Interchangeable	2
L6130650001	22	28	CW	1/2	Intake	2
L60557501	22	33	CW		Interchangeable	2
L60557601	22	33	CCW		Interchangeable	2
L6131430001	24	22	CW	1/2	Intake	2
L60557701	24	27	CW		Interchangeable	2
L60557801	24	27	CCW		Interchangeable	2
L60557901	24	33	CW		Interchangeable	2
L60558001	24	33	CCW		Interchangeable	2
L6129910001	26	33	CW		Interchangeable	1
L6130660001	26	37	CW	1/2	Intake	1
L6129930001	30	27	CW		Interchangeable	1

3-Blade And 4-Blade Propellers Free Air Style



Applications

- Pedestal and window fans, air circulators

Features

- Designed for free air, low pressure applications
- High quality, rounded aluminum blades for maximum free air delivery with minimum noise levels
- Pitches available for most common HP and motor speeds
- Hubs attached on either the intake or discharge side

Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
Lau 3 Blades Free Air Style					
L60265201	10	27	CW	Interchangeable	2
L60265301	10	27	CCW	Interchangeable	2
L60265401	12	23	CW	Interchangeable	2
L60265501	12	23	CCW	Interchangeable	2
L60265801	14	23	CW	Interchangeable	2
L60265901	14	23	CCW	Interchangeable	2
L60266201	16	23	CW	Interchangeable	2
L60266301	16	23	CCW	Interchangeable	2
L60555901	18	23	CW	Interchangeable	2
L60556001	18	23	CCW	Interchangeable	2
L60267001	20	23	CW	Interchangeable	2
L60267101	20	23	CCW	Interchangeable	2
L60267601	24	18	CW	Interchangeable	2

Item ID	Diameter (In.)	Pitch (°)	Rotation	Hub Position	Pack
Lau 4 Blades Free Air Style					
L60269301	10	23	CW	Interchangeable	2
L60269401	10	23	CCW	Interchangeable	2
L60262201	12	23	CW	Interchangeable	2
L60262301	12	23	CCW	Interchangeable	2
L60262801	14	27	CW	Interchangeable	2
L60262901	14	27	CCW	Interchangeable	2
L60555301	18	23	CW	Interchangeable	2
L60555401	18	23	CCW	Interchangeable	2
L60555501	18	27	CW	Interchangeable	2
L60555601	18	27	CCW	Interchangeable	2
L60263801	20	23	CW	Interchangeable	2
L60263901	20	23	CCW	Interchangeable	2
L60264001	20	27	CW	Interchangeable	2
L60264101	20	27	CCW	Interchangeable	2
L60285301	20	33	CW	Interchangeable	2
L60285401	20	33	CCW	Interchangeable	2
L60562101	24	18	CW	Interchangeable	2
L60562201	24	18	CCW	Interchangeable	2
L60562301	24	23	CW	Interchangeable	2
L60562401	24	23	CCW	Interchangeable	2
L60562501	24	27	CW	Interchangeable	2
L60562601	24	27	CCW	Interchangeable	2

AIR HANDLING

4-Blade Propellers Heavy Duty Condenser Style



Applications

- Condensing units, general building and agricultural ventilation fans

Features

- High strength aluminum blades with corrosion resistant center spiders

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
Lau 4 Blades Heavy Duty Condenser Style						
L60717301	10	19	CW	Interchangeable		2
L60717401	10	19	CCW	Interchangeable		2
L60717501	10	23	CW	Interchangeable		2
L60717601	10	23	CCW	Interchangeable		2
L60717701	10	27	CW	Interchangeable		2
L60717801	10	27	CCW	Interchangeable		2
L60759901	10	33	CW	Interchangeable		2
L60760001	10	33	CCW	Interchangeable		2
L60717901	12	19	CW	Interchangeable		2
L60718001	12	19	CCW	Interchangeable		2
L60718101	12	23	CW	Interchangeable		2
L60718201	12	23	CCW	Interchangeable		2
L60718301	12	27	CW	Interchangeable		2
L60718401	12	27	CCW	Interchangeable		2
L60760101	12	33	CW	Interchangeable		2
L60760201	12	33	CCW	Interchangeable		2
L6130000001	14	16	CCW	Interchangeable		2
L60718501	14	19	CW	Interchangeable		2
L60718601	14	19	CCW	Interchangeable		2
L60718701	14	23	CW	Interchangeable		2
L60718801	14	23	CCW	Interchangeable		2
L60718901	14	27	CW	Interchangeable		2
L60719001	14	27	CCW	Interchangeable		2
L60760301	14	33	CW	Interchangeable		2
L60760401	14	33	CCW	Interchangeable		2
L60719101	16	19	CW	Interchangeable		2
L60719201	16	19	CCW	Interchangeable		2
L60719401	16	23	CCW	Interchangeable		2
L60719501	16	27	CW	Interchangeable		2
L60719601	16	27	CCW	Interchangeable		2
L60760501	16	33	CW	Interchangeable		2
L60760601	16	33	CCW	Interchangeable		2
L60800201	18	23	CW	Interchangeable		2
L60800301	18	23	CCW	Interchangeable		2
L60558101	18	27	CW	Interchangeable		2
L60558201	18	27	CCW	Interchangeable		2
L60558301	18	30	CW	Interchangeable		2

Item ID	Diameter (In.)	Pitch (°)	Rotation	Bore (In.)	Hub Position	Pack
Lau 4 Blades Heavy Duty Condenser Style						
L60558401	18	30	CCW	Interchangeable		2
L60558501	18	33	CW	Interchangeable		2
L60558601	18	33	CCW	Interchangeable		2
L60800401	20	23	CW	Interchangeable		2
L60800501	20	23	CCW	Interchangeable		2
L60558701	20	27	CW	Interchangeable		2
L60558801	20	27	CCW	Interchangeable		2
L60558901	20	30	CW	Interchangeable		2
L60559001	20	30	CCW	Interchangeable		2
L60559101	20	33	CW	Interchangeable		2
L60559201	20	33	CCW	Interchangeable		2
L60804101	22	23	CW	Interchangeable		2
L60804201	22	23	CCW	Interchangeable		2
L60559301	22	27	CW	Interchangeable		2
L60559401	22	27	CCW	Interchangeable		2
L60841201	22	30	CW	1/2 Discharge		2
L60559501	22	33	CW	Interchangeable		2
L60559601	22	33	CCW	Interchangeable		2
L6130190001	24	18	CW	Interchangeable		2
L60804301	24	23	CW	Interchangeable		2
L60804401	24	23	CCW	Interchangeable		2
L60841701	24	23	CCW	1/2 Intake		2
L60559701	24	27	CW	Interchangeable		2
L60559801	24	27	CCW	Interchangeable		2
L60559901	24	33	CW	Interchangeable		2
L60560001	24	33	CCW	Interchangeable		2
L60760701	26	24	CW	Interchangeable		1
L60760801	26	24	CCW	Interchangeable		1
L60760901	26	27	CW	Interchangeable		1
L60761001	26	27	CCW	Interchangeable		1
L60997201	26	32	CW	5/8 Discharge		1
L60761101	26	33	CW	Interchangeable		1
L60761201	26	33	CCW	Interchangeable		1
L61017601	28	25	CW	5/8 Discharge		1
L6131250001	30	27	CW	Interchangeable		1
L6127290001	30	30	CW	5/8 Discharge		1
L6131260001	30	33	CCW	Interchangeable		1
L6131270001	30	33	CW	Interchangeable		1

Small Aluminum Fan Blades With Hubs



4 Blades



5 Blades



10 Blades



FB99100

Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation
Packard						
A61948	2	10	Intake	3/16	12	CW
A61949	2 1/2	10	Intake	3/16	20	CW
A61950	3	10	Intake	3/16	24	CW
A61954	3	10	Intake	1/4	30	CW
A61951	3 1/2	10	Intake	3/16	27	CW
A61955	3 1/2	10	Intake	1/4	40	CW
A61952	4	10	Intake	3/16	28	CW
A61956	4	10	Intake	1/4	30	CW
A61465	4 1/2	10	Intake	3/16	30	CW
A61467	5	10	Intake	3/16	35	CW
A61468	5	10	Intake	1/4	40	CW
A61473	5 1/2	4	Intake	1/4	19	CW
A61474	5 1/2	4	Intake	3/16	19	CW
A61476	5 1/2	4	Intake	3/16	19	CCW
A64550	5 1/2	4	Intake	3/16	19	CW
A64455	5 1/2	4	Intake	3/16	24	CCW
A65503	5 1/2	5	Intake	5/16	27	CW
A65504	5 1/2	5	Intake	1/4	27	CW
A65513	5 1/2	5	Intake	5/16	27	CCW
A65515	5 1/2	5	Intake	1/4	27	CCW
A61469	6	4	Intake	3/16	19	CW
A61470	6	4	Intake	1/4	19	CW
A65125	6	4	Intake	1/4	19	CW
A60604	6	5	Intake	1/4	27	CW
A60614	6	5	Intake	1/4	27	CCW
A65632	6	5	Intake	5/16	27	CW
A65633	6	5	Intake	5/16	27	CCW
A65131	6	5	Intake	5/16	30	CW
A65225	6	5	Discharge	1/4	30	CCW
A65231	6	5	Discharge	5/16	30	CCW
A61471	6 1/2	4	Intake	3/16	19	CW
A61472	6 1/2	4	Intake	1/4	19	CW
A64650	6 1/2	4	Intake	1/4	19	CW
A66504	6 1/2	5	Intake	1/4	27	CW
A63473	7	5	Intake	1/4	21	CW
A60704	7	5	Intake	1/4	27	CW
A60714	7	5	Intake	1/4	27	CCW
A65732	7	5	Intake	5/16	27	CW
A75131	7	5	Intake	5/16	40	CW
A75225	7	5	Discharge	1/4	40	CCW
A75231	7	5	Discharge	5/16	40	CCW

Item ID	Diameter (In.)	Blades	Hub Location	Bore	Pitch (°)	Rotation
Packard						
A63475	8	5	Intake	1/4	23	CW
A63841	8	5	Discharge	1/4	24	CW
A65825	8	5	Intake	1/4	27	CW
A65826	8	5	Intake	1/4	27	CCW
A65832	8	5	Intake	5/16	27	CW
A65833	8	5	Intake	5/16	27	CCW
A85131	8	5	Intake	5/16	30	CW
A60804	8	5	Intake	1/4	36	CW
A60805	8	5	Intake	5/16	36	CW
A60814	8	5	Intake	1/4	36	CCW
A60815	8	5	Intake	5/16	36	CCW
A85225	8	5	Discharge	1/4	40	CCW
A85231	8	5	Discharge	5/16	40	CCW
A63477	9	5	Intake	1/4	25	CW
A65925	9	5	Intake	1/4	26	CW
A65926	9	5	Intake	1/4	26	CCW
A65932	9	5	Intake	5/16	26	CW
A65933	9	5	Intake	5/16	26	CCW
A95131	9	5	Intake	5/16	30	CW
A95225	9	5	Discharge	1/4	30	CCW
A95231	9	5	Discharge	5/16	30	CCW
A65105	10	5	Intake	1/4	20	CCW
A65104	10	5	Intake	1/4	20	CW
A65133	10	5	Intake	5/16	20	CCW
A65132	10	5	Intake	5/16	20	CW
A63479	10	5	Intake	1/4	28	CW
A15225	10	5	Discharge	1/4	30	CCW
A61322	10	5	Intake	5/16	30	CCW
A61323	10	5	Discharge	5/16	30	CCW
A61312	10	5	Intake	5/16	30	CW
A61015	10	5	Intake	5/16	40	CCW
A61005	10	5	Intake	5/16	40	CW
A65123	12	5	Discharge	5/16	23	CW
A61215	12	5	Intake	5/16	24	CCW
A61216	12	5	Discharge	5/16	24	CCW
A61205	12	5	Intake	5/16	24	CW
FB99100 *	12	5	Discharge	1/2	33	CW
A61405	14	5	Intake	5/16	19	CW
A65145	14	5	Intake	1/2	32	CW

Notes: * steel blade. Used with Lomanco motor 70059, see page 34 and 62.

AIR HANDLING

Small Aluminum Fan Blades - Hubless



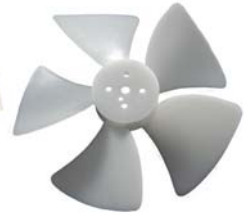
5 Blades



6 Blades

Item ID	Diameter (In.)	Blades	Pitch (°)	Rotation
Packard				
A61101	6	5	21	CW
A61102	6	5	21	CCW
A63607	6	5	30	CW
A63617	6	5	30	CCW
A61608	6 3/4	5	21	CW
A61618	6 3/4	5	21	CCW
A67513	6 3/4	5	30	CW
A67523	6 3/4	5	30	CCW
A63474	7	5	21	CW
A61103	7	5	25	CW
A61104	7	5	25	CCW
A63707	7	5	31	CW
A63717	7	5	31	CCW
A75221	7	5	40	CCW
A63100	7 3/4	5	22	CW
A65751	7 3/4	5	22	CCW
A77551	7 3/4	5	40	CW
A77552	7 3/4	5	40	CCW
A63806	8	5	22	CW
A63816	8	5	22	CCW
A63476	8	5	30	CW
A63807	8	5	30	CW
A63817	8	5	30	CCW
A61831	8	5	31	CW
A61835	8	5	35	CW
A61837	8	5	37	CCW
A85223	8	5	40	CCW
A61807	8 3/4	5	30	CW
A61817	8 3/4	5	30	CCW
A87513	8 3/4	5	30	CW
A87523	8 3/4	5	30	CCW
A63906	9	5	25	CW
A63916	9	5	25	CCW
A63917	9	5	30	CCW
A63907	9	5	31	CW
A63116	10	5	25	CCW
A63126	10	5	25	CW
A61480	10	5	28	CW
A61108	10	5	30	CW
A61481	10	5	30	CCW
A63117	10	5	30	CCW
A85150	8	6	50	CW
A85250	8	6	50	CCW

Plastic Fan Blades



Item ID	Diameter (In.)	Number of Blades	Rotation	Bore (In.)	Replaces Notes
Packard					
A61299	2 1/2	4	CW	3/16	
A61300	3	4	CW	1/8	
A61301	3	4	CW	3/16	
A61302	3 1/2	4	CCW	3/16	
A61353	4	4	CCW	Hub	
A61406	4	4	CW	1/8	
A61408	4	4	CW	3/16	
A61550	5 1/2	4	CCW	3/16	
A61551	5 1/2	4	CW	3/16	
A61602	6	4	CW	1/4	
A61603	6	4	CW	5/16	
A61604	6	4	CCW	3/16	
A61605	6	4	CCW	1/4	
A61606	6	4	CCW	5/16	
A61401	4	5	CW	1/8	
A61402	4	5	CW	3/16	
A61403	4	5	CCW	1/8	
A61404	4	5	CCW	3/16	
A61501	5	5	CW	3/16	
A61502	5	5	CW	1/4	
A61503	5	5	CW	5/16	
A61504	5	5	CCW	3/16	
A61505	5	5	CCW	1/4	
A61506	5	5	CCW	5/16	
A61455	5 9/16	5	CCW	3/16	
A61650	6 1/2	5	CW	3/16	
A61651	6 1/2	5	CW	1/4	
A61652	6 1/2	5	CW	5/16	
A61660	6 5/8	5	CW	7/32	D-STYLE BORE
A61665	6 5/8	5	CW	7/32	D-STYLE BORE
A61701	7	5	CW	1/4	
A61703	7	5	CCW	1/4	
A61718	7	5	CW	Hub	Gemline FB718
A61801	8	5	CW	1/4	
A61802	8	5	CW	5/16	
A61601	6	6	CW	3/16	

Galvanized Steel Blower Wheels



Applications

- Condensers, draft boosters, flue exhaust, small appliances, furnaces

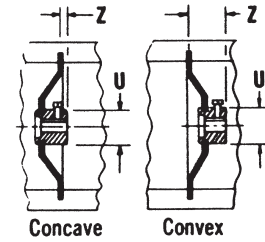
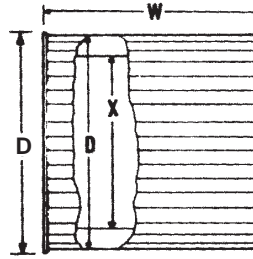
Features

- Rotation viewed side opposite hub

Item ID	Diameter (In.)	Width (In.)	Rotation	Bore (In.)	Max RPM
Packard					
BW16039	3	1 7/8	CCW	1/4	5000
BW16038	3	1 7/8	CW	1/4	5000
BW16044	3 13/16	2 1/2	CW	5/16	5000
BW16043	3 13/16	1 7/8	CW	5/16	5000
BW16042	3 13/16	1 7/8	CCW	5/16	5000
BW16045	3 13/16	2 1/2	CCW	5/16	5000
BW16041	3 13/16	1 7/8	CW	1/4	5000
BW16040	3 13/16	1 7/8	CCW	1/4	5000
BW16114	3 27/32	1 1/4	CW	1/4	5600
BW16113	3 27/32	1	CW	1/4	5800
BW16051	3 27/32	1 13/64	CCW	1/4	5640
BW16141	4	1 1/2	CCW	5/16	3600
BW16133	4	2 1/2	CCW	1/4	3600
BW16123	4	7/8	CW	5/16	3600
BW16046	4 1/4	2	CCW	1/4	4500
BW16052	4 1/4	2 15/16	CCW	1/4	4500
BW16047	4 1/4	2	CCW	5/16	4500
BW11046	4 1/2	1 5/8	CCW	1/4	Replaces Carrier LAXA046
BW16160	4 17/32	1 1/4	CW	5/16	6300
BW16161	4 17/32	1 1/4	CCW	5/16	6300
BW16048	4 23/32	2 15/16	CW	5/16	3600
BW16054	5 13/64	2 29/32	CCW	5/16	3600
BW16025	5 13/64	2 1/2	CCW	5/16	3600
BW16053	5 13/64	2 29/32	CW	5/16	3600
BW16024	5 13/64	2 1/2	CW	5/16	3600
BW16549	5 1/4	1	CW	5/16	Replaces Carrier LA21RB549
BW16548	5 3/4	1	CW	5/16	Replaces Carrier LA21RB548
BW16026	5 45/64	2 15/16	CCW	5/16	3000
BW16002	5 45/64	4	CW	1/2	2800
BW16057	5 45/64	4	CCW	1/2	2800
BW16143	5 3/4	1 1/2	CCW	5/16	3600
BW16058	6	3 1/4	CW	1/2	2400
BW16010	6	3 1/4	CCW	1/2	2400
BW16060	6 3/16	2 15/16	CCW	3/8	3000
BW16064	6 25/64	4	CCW	1/2	1700
BW16063	6 25/64	4	CW	1/2	1700
BW16005	7 1/8	4	CCW	1/2	1500
BW16066	7 1/8	2	CCW	5/16	2900
BW16070	7 31/64	3 1/2	CW	1/2	1800
BW16071	7 31/64	3 1/2	CCW	1/2	1800
BW16006	8 5/64	4	CW	1/2	1650
BW16074	8 5/64	4	CCW	1/2	1650
BW16077	8 35/64	3	CCW	1/2	2050
BW16008	9 1/8	5	CW	1/2	1350
BW16007	9 1/8	4 1/4	CW	1/2	1475
BW16009	9 1/8	5	CCW	1/2	1350
BW16079	9 31/32	4	CW	1/2	1350
BW16080	9 31/32	4	CCW	1/2	1350
BW16027	9 31/32	6	CW	1/2	1100
BW16028	9 31/32	6	CCW	1/2	1100

AIR HANDLING

Double Inlet Blower Wheels



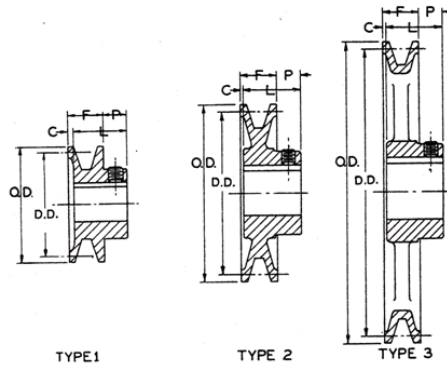
Features

- Universal replacement wheels for direct drive blowers
- Galvanized, cold rolled steel

Item ID	Bore	Rotation	Center Disc	Max RPM	D	W	Dimensions (In.)		
							X	U	Z
Lau									
L01333501	1/2	CW	Convex	1750	9 1/2	6	7 11/16	1 1/4	1 25/32
L01333602	1/2	CW	Convex	1750	9 1/2	7 1/8	7 11/16	1 1/4	1 25/32
L01333603	1/2	CCW	Convex	1750	9 1/2	7 1/8	7 11/16	1 1/4	1 25/32
L01333701	1/2	CW	Convex	1750	9 1/2	8	7 11/16	1 1/4	1 25/32
L01333703	1/2	CCW	Convex	1750	9 1/2	8	7 11/16	1 1/4	1 25/32
L01333201	1/2	CW	Concave	1750	9 1/2	9 1/2	7 11/16	1 1/4	7/32
L01333203	1/2	CCW	Concave	1750	9 1/2	9 1/2	7 11/16	1 1/4	7/32
L01332701	1/2	CW	Convex	1750	10 5/8	4 1/2	8 7/8	1 1/4	1 15/16
L01332601	1/2	CW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332602	1/2	CCW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332614	5/8	CW	Convex	1750	10 5/8	6	8 7/8	1 1/4	1 15/16
L01332501	1/2	CW	Convex	1750	10 5/8	7 1/8	8 7/8	1 1/4	1 15/16
L02710204	1/2	CCW	Convex	1750	10 5/8	7 1/8	8 7/8	1 1/4	1 15/16
L01332401	1/2	CW	Convex	1750	10 5/8	8	8 7/8	1 1/4	1 15/16
L01332402	1/2	CCW	Convex	1750	10 5/8	8	8 7/8	1 1/4	1 15/16
L01331701	1/2	CW	Concave	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01331704	1/2	CCW	Concave	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01332301	1/2	CW	Convex	1750	10 5/8	9 1/2	8 7/8	1 1/4	1/16
L01331602	1/2	CW	Concave	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L01332203	1/2	CW	Convex	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L01331606	1/2	CCW	Concave	1750	10 5/8	10 5/8	8 7/8	1 1/4	1/16
L02694003	1/2	CW	Convex	1550	11 3/4	6	10	1 1/4	—
L02694005	1/2	CW	Convex	1550	11 3/4	7 1/8	10	1 1/4	—
L02694007	1/2	CW	Convex	1550	11 3/4	8	10	1 1/4	—
L02694107	1/2	CW	Concave	1550	11 3/4	8	10	1 1/4	—
L02694008	1/2	CCW	Convex	1550	11 3/4	8	10	1 1/4	—
L02694009	1/2	CW	Convex	1550	11 3/4	9 1/2	10	1 1/4	—
L02694010	1/2	CCW	Convex	1550	11 3/4	9 1/2	10	1 1/4	—
L02694112	1/2	CCW	Concave	1550	11 3/4	10 5/8	10	1 1/4	—
L01369325	1/2	CW	Convex	1200	12 5/8	9 1/2	10 5/16	1 1/4	2
L01369315	5/8	CW	Convex	1200	12 5/8	9 1/2	10 5/16	1 1/4	2
L01556507	1/2	CW	Concave	1200	12 5/8	12 5/8	10 5/16	1 1/4	1/16
L01556504	5/8	CW	Concave	1200	12 5/8	12 5/8	10 5/16	1 1/4	1/16

• Due to temperature limitations of most motors, these wheels are recommended for application temps that do not exceed 135°F(60°C). Wheels are rated to 200°F.

Single Groove Pulleys For 4L Or A Belts



Features

- PACKARD DRIVE “PAK” pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- They are furnished with standard keyway and hollow head set screws.
- 3L belts may be used with these pulleys.

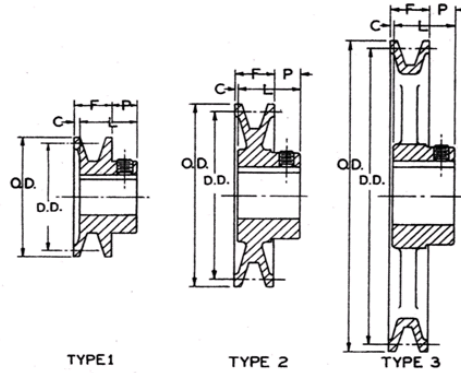
Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	Diameter (In.)			Type	Stock Bore (In.)	F	Dimensions (In.)			Replaces Browning
	O.D.	Datum A	Pitch 3L				L	P	C	
Packard										
PAK1712	1.75	1.5	1.16	1	1/2	21/32	15/16	7/16	5/32	AK1712
PAK1758	1.75	1.5	1.16	1	5/8	21/32	15/16	7/16	5/32	AK1758
PAK2012	2	1.8	1.46	1	1/2	21/32	15/16	7/16	5/32	AK2012
PAK2058	2	1.8	1.46	1	5/8	21/32	15/16	7/16	5/32	AK2058
PAK2212	2.2	2	1.66	1	1/2	21/32	15/16	7/16	5/32	AK2212
PAK2258	2.2	2	1.66	1	5/8	21/32	15/16	7/16	5/32	AK2258
PAK2312	2.3	2.1	1.76	1	1/2	21/32	15/16	7/16	5/32	AK2312
PAK2358	2.3	2.1	1.76	1	5/8	21/32	15/16	7/16	5/32	AK2358
PAK2512	2.5	2.3	1.96	2	1/2	21/32	15/16	7/16	5/32	AK2512
PAK2558	2.5	2.3	1.96	2	5/8	21/32	15/16	7/16	5/32	AK2558
PAK2712	2.7	2.5	2.16	2	1/2	21/32	15/16	7/16	5/32	AK2712
PAK2758	2.7	2.5	2.16	2	5/8	21/32	15/16	7/16	5/32	AK2758
PAK3012	3.05	2.8	2.46	2	1/2	21/32	15/16	7/16	5/32	AK3012
PAK3058	3.05	2.8	2.46	2	5/8	21/32	15/16	7/16	5/32	AK3058
PAK3034	3.05	2.8	2.46	2	3/4	21/32	15/16	7/16	5/32	AK3034
PAK3412	3.45	3.2	2.86	2	1/2	21/32	15/16	7/16	5/32	AK3412
PAK3458	3.45	3.2	2.86	2	5/8	21/32	15/16	7/16	5/32	AK3458
PAK3478	3.45	3.2	2.86	2	7/8	21/32	15/16	7/16	5/32	AK3478
PAK3958	3.75	3.5	3.16	2	5/8	3/4	1 5/32	15/32	1/16	AK3958
PAK4158	3.95	3.7	3.36	2	5/8	3/4	1 5/32	15/32	1/16	AK4158
PAK4178	3.95	3.7	3.36	2	7/8	3/4	1 5/32	15/32	1/16	AK4178
PAK4458	4.25	4	3.66	3	5/8	3/4	1 5/32	15/32	1/16	AK4458
PAK4658	4.45	4.2	3.86	3	5/8	3/4	1 5/32	15/32	1/16	AK4658
PAK5158	4.95	4.7	4.36	3	5/8	3/4	1 5/32	15/32	1/16	AK5158
PAK5178	4.95	4.7	4.36	3	7/8	3/4	1 5/32	15/32	1/16	AK5178
PAK5634	5.45	5.2	4.86	3	3/4	3/4	1 5/32	15/32	1/16	AK5634
PAK5978	5.75	5.5	5.16	3	7/8	3/4	1 5/32	15/32	1/16	AK5978
PAK6158	5.95	5.7	5.36	3	5/8	3/4	1 5/32	15/32	1/16	AK6158
PAK8934	8.75	8.5	8.16	3	3/4	3/4	1 15/32	23/32	0	AK8934

• Do not use PAK sheaves with bores 1” and under with cogged belt ratings.

AIR HANDLING

Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts



Features

- PACKARD DRIVE “PBK” pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- They are furnished with standard keyway and hollow head set screws.

Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	O.D.	Diameter (In.)		Type	Stock Bore (In.)	F	Dimensions (In.)			Replaces Browning
		Datum A	Datum B				L	P	C	
Packard										
PBK2558	2.5	1.9	2.3	1	5/8	13/16	1 1/16	13/32	5/32	BK2558
PBK2758	2.7	2.1	2.5	2	5/8	13/16	1 1/16	13/32	5/32	BK2758
PBK2812	2.95	2.2	2.6	2	1/2	13/16	1 1/16	13/32	5/32	BK2812
PBK2858	2.95	2.2	2.6	2	5/8	13/16	1 1/16	13/32	5/32	BK2858
PBK2878	2.95	2.2	2.6	2	7/8	13/16	1 1/16	13/32	5/32	BK2878
PBK3012	3.15	2.4	2.8	2	1/2	13/16	1 1/16	13/32	5/32	BK3012
PBK3058	3.15	2.4	2.8	2	5/8	13/16	1 1/16	13/32	5/32	BK3058
PBK3258	3.35	2.6	3	2	5/8	13/16	1 1/16	13/32	5/32	BK3258
PBK3234	3.35	2.6	3	2	3/4	13/16	1 1/16	13/32	5/32	BK3234
PBK3278	3.35	2.6	3	2	7/8	13/16	1 1/16	13/32	5/32	BK3278
PBK3412	3.55	2.8	3.2	2	1/2	7/8	1 5/32	13/32	1/8	BK3412
PBK3458	3.55	2.8	3.2	2	5/8	7/8	1 5/32	13/32	1/8	BK3458
PBK3658	3.75	3	3.4	2	5/8	7/8	1 5/32	13/32	1/8	BK3658
PBK4058	3.95	3.2	3.6	2	5/8	7/8	1 5/32	13/32	1/8	BK4058
PBK4078	3.95	3.2	3.6	2	7/8	7/8	1 5/32	13/32	1/8	BK4078
PBK4758	4.45	3.7	4.1	2	5/8	7/8	1 5/32	13/32	1/8	BK4758
PBK5278	4.95	4.2	4.6	3	7/8	7/8	1 5/32	13/32	1/8	BK5278
PBK6058	5.75	5	5.4	3	5/8	7/8	1 5/32	13/32	1/8	BK6058
PBK6034	5.75	5	5.4	3	3/4	7/8	1 5/32	13/32	1/8	BK6034
PBK6078	5.75	5	5.4	3	7/8	7/8	1 5/32	13/32	1/8	BK6078
PBK6234	5.95	5.2	5.6	3	3/4	7/8	1 5/32	13/32	1/8	BK6234
PBK6534	6.25	5.5	5.9	3	3/4	7/8	1 5/32	13/32	1/8	BK6534
PBK7534	7.25	6.5	6.9	3	3/4	7/8	1 15/32	21/32	1/16	BK7534

• Do not use PBK sheaves with bores 1” and under with cogged belt ratings.

Stock “PH” Bushings



Stock Spine Bores

0.978 - 10 Inv

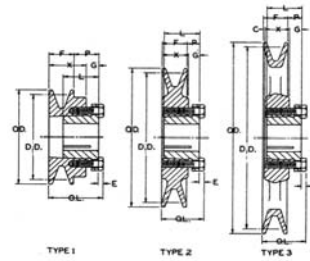
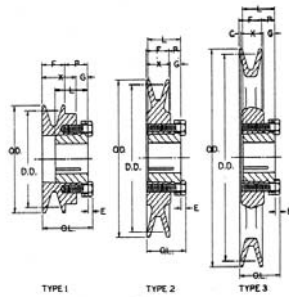
1 1/8 - 6B

1 3/8 - 6B

1 3/8 - 21 Inv

Item ID	Stock	
	Bore (In.)	Key Way
Packard		
PH12	1/2	1/8 x 1/16
PH58	5/8	3/16 x 3/32
PH34	3/4	3/16 x 3/32
PH1316	13/16	3/16 x 3/32
PH78	7/8	3/16 x 3/32
PH1	1	1/4 x 1/8
PH118	1 1/8	1/4 x 1/8
PH114	1 1/4	1/4 x 1/16
PH138	1 3/8	5/16 x 1/16

Single Groove Pulleys



Features

- 3L belts may be used with these pulleys.

PAKH Series

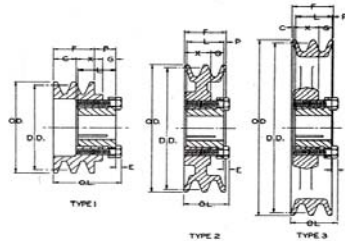
PBKH Series

Item ID	Diameter (In.)			Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A	Pitch 3L		O.L.	F	L	P	C	X	G	E	
Packard Single Groove Pulleys For 4L Or A Belts													
PAK30H	3.05	2.8	2.46	1	1 13/16	3/4	1 1/4	7/8	—	1 3/16	7/16	3/16	AK30H
PAK39H	3.75	3.5	3.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK39H
PAK41H	3.95	3.7	3.36	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK41H
PAK44H	4.25	4	3.66	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK44H
PAK49H	4.75	4.5	4.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK49H
PAK51H	4.95	4.7	4.36	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK51H
PAK54H	5.25	5	4.66	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK54H
PAK56H	5.45	5.2	4.86	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK56H
PAK59H	5.75	5.5	5.16	2	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK59H
PAK61H	5.95	5.7	5.36	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK61H
PAK64H	6.25	6	5.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK64H
PAK66H	6.45	6.2	5.86	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK66H
PAK71H	6.95	6.7	6.36	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK71H
PAK74H	7.25	7	6.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK74H
PAK79H	7.75	7.5	7.16	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK79H
PAK84H	8.25	8	7.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK84H
PAK114H	11.25	11	10.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK114H
PAK124H	12.25	12	11.66	3	1 1/2	3/4	1 1/4	9/16	—	7/8	7/16	3/16	AK124H

Item ID	Diameter (In.)			Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A	Datum B		O.L.	F	L	P	C	X	G	E	
Packard Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts													
PBK30H	3.15	2.4	2.8	1	1 15/16	7/8	1 1/4	7/8	—	1 5/16	7/16	3/16	BK30H
PBK32H	3.35	2.6	3	1	1 15/16	7/8	1 1/4	7/8	—	1 5/16	7/16	3/16	BK32H
PBK34H	3.55	2.8	3.2	1	1 15/16	7/8	1 1/4	7/16	—	1 5/16	7/16	3/16	BK34H
PBK36H	3.75	3	3.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK36H
PBK40H	3.95	3.2	3.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK40H
PBK45H	4.25	3.5	3.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK45H
PBK47H	4.45	3.7	4.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK47H
PBK50H	4.75	4	4.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK50H
PBK52H	4.95	4.2	4.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK52H
PBK55H	5.25	4.5	4.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK55H
PBK57H	5.45	4.7	5.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK57H
PBK60H	5.75	5	5.4	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK60H
PBK62H	5.95	5.2	5.6	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK62H
PBK65H	6.25	5.5	5.9	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK65H
PBK67H	6.45	5.7	6.1	2	1 1/2	7/8	1 1/4	7/16	—	7/8	7/16	3/16	BK67H
PBK70H	6.75	6	6.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK70H
PBK72H	6.95	6.2	6.6	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK72H
PBK75H	7.25	6.5	6.9	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK75H
PBK77H	7.45	6.7	7.1	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK77H
PBK80H	7.75	7	7.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK80H
PBK85H	8.25	7.5	7.9	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK85H
PBK90H	8.75	8	8.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK90H
PBK100H	9.75	9	9.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK100H
PBK120H	11.75	11	11.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK120H
PBK130H	12.75	12	12.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK130H
PBK140H	13.75	13	13.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK140H
PBK150H	14.75	14	14.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK150H
PBK160H	15.75	15	15.4	3	1 9/16	7/8	1 1/4	1/2	1/16	7/8	7/16	3/16	BK160H

AIR HANDLING

Two Groove Pulleys For 4L Or A Belts

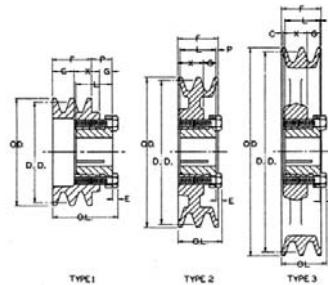


Features

- 3L belts may be used with these pulleys.

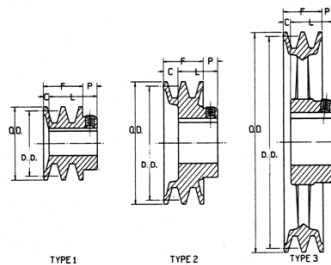
Item ID	Diameter (In.)		Pitch 3L	Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A			O.L.	F	L	P	C	X	G	E	
Packard													
P2AK30H	3.05	2.8	2.46	1	2 7/16	1 3/8	1 1/4	7/8	15/16	7/8	7/16	3/16	2AK30H
P2AK39H	3.75	3.5	3.16	1	2	1 3/8	1 1/4	7/8	1/2	7/8	7/16	3/16	2AK39H
P2AK46H	4.45	4.2	3.86	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK46H
P2AK54H	5.25	5.0	4.66	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK54H
P2AK56H	5.45	5.2	4.86	2	1 1/2	1 3/8	1 1/4	1/16	—	7/8	7/16	3/16	2AK56H

Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts



Item ID	Diameter (In.)			Type	Dimensions (In.)								Replaces Browning
	O.D.	Datum A	Datum B		O.L.	F	L	P	C	X	G	E	
Packard													
P2BK32H	3.35	2.6	3	1	2 13/16	1 3/4	1 1/4	7/8	5/16	7/8	7/16	3/16	2BK32H
P2BK80H	7.75	7.0	7.4	3	1 3/4	1 3/4	1 1/4	7/16	7/8	7/8	7/16	3/16	2BK80H
P2BK100H	9.75	9.0	9.4	3	1 3/4	1 3/4	1 1/4	7/16	7/8	7/8	7/16	3/16	2BK100H

Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts

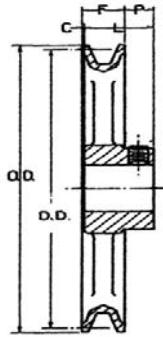


Features

- PACKARD DRIVE “P2BK” sheaves are accurately machined from grained cast iron, statically balanced, painted and individually packaged. They are furnished with standard keyway and hollow head set screws.

Item ID	Diameter (In.)			Type	Stock Bore (In.)	Dimensions (In.)			Replaces Browning	
	O.D.	Datum A	Datum B			F	L	P		C
Packard										
P2BK2558	2.6	2	2.4	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK2558
P2BK3058	3.15	2.4	2.8	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK3058
P2BK34118	3.55	2.8	3.2	1	1 1/8	1 3/4	1 31/32	15/32	1/4	2BK34118
P2BK3658	3.75	3	3.4	1	5/8	1 3/4	1 31/32	15/32	1/4	2BK3658
P2BK4058	3.95	3.2	3.6	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK4058
P2BK4558	4.25	3.5	3.9	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK4558
P2BK5058	4.75	4	4.4	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK5058
P2BK5558	5.25	4.5	4.9	2	5/8	1 3/4	1 15/32	15/32	3/4	2BK5558

PAL Pulleys For 4L Or A Belts

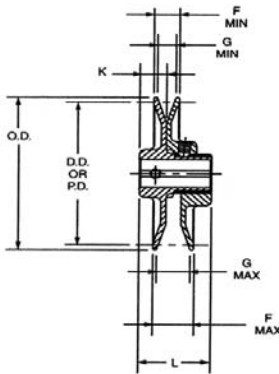


Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	Diameter (In.)		Stock Bore (In.)	Dimensions (In.)			Replaces Browning
	O.D.	Pitch		F	P	L	
Packard							
PAL5434	4.93	4.78	3/4	19/32	15/32	1 1/16	AL5434
PAL5458	4.93	4.78	5/8	19/32	15/32	1 1/16	AL5458
PAL6434	5.93	5.78	3/4	19/32	15/32	1 1/16	AL6434
PAL6458	5.93	5.78	5/8	19/32	15/32	1 1/16	AL6458
PAL641	5.93	5.78	1	19/32	15/32	1 1/16	AL641
PAL7434	6.93	6.78	3/4	19/32	15/32	1 1/16	AL7434
PAL741	6.93	6.78	1	19/32	15/32	1 1/16	AL741
PAL8434	7.93	7.78	3/4	19/32	15/32	1 1/16	AL8434
PAL841	7.93	7.78	1	19/32	15/32	1 1/16	AL841
PAL9434	8.93	8.78	3/4	19/32	15/32	1 1/16	AL9434
PAL941	8.93	8.78	1	19/32	15/32	1 1/16	AL941
PAL1041	9.93	9.78	1	19/32	15/32	1 1/16	AL1041
PAL11434	10.93	10.78	3/4	19/32	15/32	1 1/16	AL11434
PAL1141	10.93	10.78	1	19/32	15/32	1 1/16	AL1141
PAL12434	11.93	11.78	3/4	19/32	15/32	1 1/16	AL12434
PAL1241	11.93	11.78	1	19/32	15/32	1 1/16	AL1241

• Do not use "A" Gripnotch Belt Ratings with "AL" or "AM" sheaves.

PVL Variable Pitch Pulleys

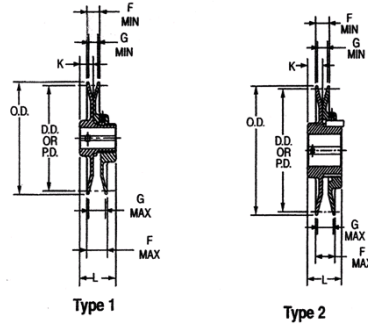


Bore Range (In.)	Keyway (In.)
1/2	None
5/8 - 7/8	3/16 x 3/32
1 5/16 - 1 1/4	1/4 x 1/8
1 7/16	3/8 x 3/16

Item ID	3L Belts					4L or A Belts					5L or B Belts			Stock Bore (In.)	Replaces Browning
	O.D. (In.)	Min. Pitch	Min. Turns Open	Max. Turns	Max. Pitch	Min. Datum	Min. Turns Open	Max. Turns	Max. Datum	Min. Turns Open	Min. Datum	Max. Turns	Max. Turns Open		
Packard															
PVL2512	2.5	1.6	4	2.4	0	—	—	—	—	—	—	—	—	1/2	1VL25 X 1/2
PVL2558	2.5	1.6	4	2.4	0	—	—	—	—	—	—	—	—	5/8	1VL25 X 5/8
PVL3012	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	1/2	1VL30 X 1/2
PVL3058	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	5/8	1VL30 X 5/8
PVL3412	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	1/2	1VL34 X 1/2
PVL3434	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	3/4	1VL34 X 3/4
PVL3458	3.15	1.7	4	2.5	0	1.9	5	2.9	0	5	2.4	3.2	1	5/8	1VL34 X 5/8
PVL4012	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	1/2	1VL40 X 1/2
PVL4034	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	3/4	1VL40 X 3/4
PVL4058	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	5/8	1VL40 X 5/8
PVL4078	3.75	2.3	4	3.1	0	2.4	5	3.4	0	6	2.7	4.1	1	7/8	1VL40 X 7/8
PVL4412	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	1/2	1VL44 X 1/2
PVL4434	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	3/4	1VL44 X 3/4
PVL4458	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	5/8	1VL44 X 5/8
PVL4478	4.15	2.7	4	3.5	0	2.8	5	3.8	0	6	3.1	4.1	1	7/8	1VL44 X 7/8

AIR HANDLING

Stock PVP Variable Pitch Single Groove Pulleys



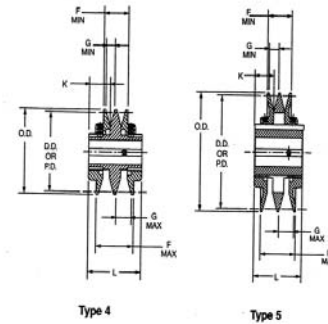
Features

- All fitted with hollow head set screws.
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

Item ID	Type	3L Belts					4L or A Belts					5L or B Belts					5V Belts					Stock Bore (In.)	Replaces Browning
		O.D. (In.)	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open					
Packard																							
PVP3012	1	2.87	1.8	4	2.7	0	—	—	—	—	—	—	—	—	—	—	—	—	—	1/2	1VP30 X 1/2		
PVP3412	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	—	1/2	1VP34 X 1/2		
PVP3458	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	—	5/8	1VP34 X 5/8		
PVP3478	1	3.15	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1	—	—	—	—	—	7/8	1VP34 X 7/8		
PVP4012	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	—	1/2	1VP40 X 1/2		
PVP4034	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	—	3/4	1VP40 X 3/4		
PVP4058	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	—	5/8	1VP40 X 5/8		
PVP4078	1	3.75	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1	—	—	—	—	—	7/8	1VP40 X 7/8		
PVP4412	1	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	—	1/2	1VP44 X 1/2		
PVP4458	1	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	—	5/8	1VP44 X 5/8		
PVP4478	2	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	—	7/8	1VP44 X 7/8		
PVP44118	2	4.15	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1	—	—	—	—	—	1 1/8	1VP44 X 1 1/8		
PVP5012	1	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	—	1/2	1VP50 X 1/2		
PVP5058	1	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	—	5/8	1VP50 X 5/8		
PVP5078	2	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	—	7/8	1VP50 X 7/8		
PVP50118	2	4.75	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—	—	1 1/8	1VP50 X 1 1/8		
PVP5658	1	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	—	5/8	1VP56 X 5/8		
PVP5678	2	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	—	7/8	1VP56 X 7/8		
PVP56118	2	5.35	3.9	4	4.7	0	4	5	5.0	0	4.3	6	5.3	1	—	—	—	—	—	1 1/8	1VP56 X 1 1/8		
PVP6078	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	—	7/8	1VP60 X 7/8		
PVP60118	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	—	1 1/8	1VP60 X 1 1/8		
PVP60138	2	6.00	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—	—	1 3/8	1VP60 X 1 3/8		
PVP65118	2	6.5	—	—	—	—	4.7	5	5.7	0	4.8	6	6.0	0	5.2	6	6.4	0	—	1 1/8	1VP65 X 1 1/8		
PVP68118	2	6.55	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1	5.9	6	6.9	1	—	1 1/8	1VP68 X 1 3/8		
PVP75138	2	7.5	—	—	—	—	5.7	5	6.7	0	5.8	6	7.0	0	6.2	6	7.4	0	—	1 3/8	1VP75 X 1 3/8		

Stock P2VP Variable Pitch Double Groove Pulleys

Item ID	Type	Diameter (In.) O.D.	Stock Bore (In.)	Replaces Browning
Packard				
P2VP3658	4	3.35	5/8	2VP36 X 5/8
P2VP3678	4	3.35	7/8	2VP36 X 7/8
P2VP4258	4	3.95	5/8	2VP42 X 5/8
P2VP4278	4	3.95	7/8	2VP42 X 7/8
P2VP42118	4	3.95	1 1/8	2VP42 X 1 1/8
P2VP5058	5	4.75	5/8	2VP50 X 5/8
P2VP5078	5	4.75	7/8	2VP50 X 7/8
P2VP50118	5	4.75	1 1/8	2VP50 X 1 1/8
P2VP5678	5	5.35	7/8	2VP56 X 7/8
P2VP56118	5	5.35	1 1/8	2VP56 X 1 1/8
P2VP60118	5	6	1 1/8	2VP60 X 1 1/8
P2VP60138	5	6	1 3/8	2VP60 X 1 3/8
P2VP62118	5	6	1 1/8	2VP62 X 1 1/8
P2VP65118	5	5.95	1 1/8	2VP65 X 1 1/8
P2VP68118	5	6.50	1 1/8	2VP68 X 1 1/8



Features

- All fitted with hollow head set screws
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

Item ID	3L Belts				4L or A Belts				5L or B Belts				5V Belts			
	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Datum	Min. Turns Open	Max. Datum	Max. Turns Open	Min. Pitch	Min. Turns Open	Max. Pitch	Max. Turns Open
Packard																
P2VP3658	1.9	4	2.7	0	2	5	3	0	2.5	5	3.3	1	—	—	—	—
P2VP3678	1.9	4	2.7	0	2	5	3	0	2.5	5	3.3	1	—	—	—	—
P2VP4258	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP4278	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP42118	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1	—	—	—	—
P2VP5058	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP5078	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP50118	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1	—	—	—	—
P2VP5678	3.9	4	4.7	0	4	5	5	0	4.3	6	5.3	1	—	—	—	—
P2VP56118	3.9	4	4.7	0	4	5	5	0	4.3	6	5.3	1	—	—	—	—
P2VP60118	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—
P2VP60138	—	—	—	—	4.2	5	5.2	0	4.3	6	5.5	0	—	—	—	—
P2VP62118	4.5	4	5.3	0	4.6	5	5.6	0	4.9	6	5.9	1	5.3	6	6.3	1
P2VP65118	—	—	—	—	4.7	5	5.7	0	4.8	6	6	0	5.2	6	6.4	0
P2VP68118	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1	5.9	6	6.9	1

AIR HANDLING

Motor Pump Seals



Head Type - A



Head Type - B



Head Type - C



Head Type - D



Mating Ring - 1

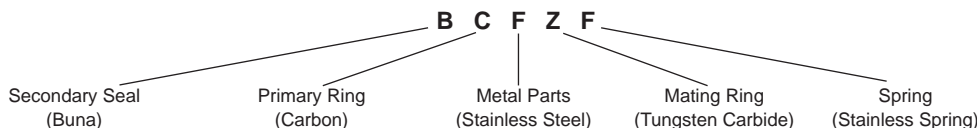


Mating Ring - 3

SECONDARY SEALS	PRIMARY RINGS	METAL PARTS	MATING RINGS	SPRINGS
B. Buna	A. Bronze	D. Brass	A. Bronze	E. Monel®
N. Neoprene	C. Carbon	E. Monel®	G. Cast Iron	F. Stainless Steel
Q. EPR	H. Glass Filled PTFE	F. Stainless Steel	J. Ceramic	P. Plated Steel
T. PTFE	L. Silicon Carbide	P. Plated Steel	K. Ni-Resist	
V. Viton®	M. Molded Plastic		L. Silicon Carbide	
X. AFLAS®	R. Silicon Carbide (CVR)		O. Stellite	
Y. Kalrez®	S. Toolled Steel		S. Toolled Steel	
	Z. Tungsten Carbide		Z. Tungsten Carbide	

Features

- Self aligning
- Completely assembled for easy installation
- Exceptionally broad application range
- Wide temperature range
- Low, medium or high pressure applications
- Available for standard or limited gland depths
- Automatic compensation for mating ring wear and shaft end play



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 Kalrez® is a registered trademark of DuPont Performance Elastomers, LLC
 Viton® is a registered trademark of DuPont Performance Elastomers, LLC
 Monel® is a registered trademark of Special Metals Corporation



Material Code

Item ID	Seal Size	Head Type	Mating Ring	Material Code
U.S. Seal				
PS101	3/4	A	1	BMFJF
PS201	3/4	A	1	BMFJF
PS201VCMS	3/4	A	1	VCFJF
PS358V	3/4	C	3	VCFJF
PS100	5/8	A	1	BMFJF
PS200	5/8	A	1	BMFJF
PS100VCMS	5/8	A	1	VCFJF
PS200VCMS	5/8	A	1	VCFJF
PS2131	5/8	A	3	BMFJF
PS1000	5/8	B	1	BMFJF
PS359	5/8	C	1	BCFJF
PS290	5/8	C	1	BCFJF
PS359VCMS	5/8	C	1	VCFJF
PS359V	5/8	C	3	VCFJF
PS508	5/8	D	1	BCDJF
PS508V	5/8	D	3	VCDJF
PS357	1	C	1	BCFKF
PS235V	1	C	3	VCFJF
PS356	1 1/8	C	1	BCFJF
PS356V	1 1/8	C	3	VCFJF
PS355V	1 1/8	C	3	VCFKF
PS185	1 1/4	C	1	BCFJF
PS979	1 1/4	C	1	BCFKF
PS978V	1 1/4	C	1	VCFJF
PS185VCMS	1 1/4	C	1	VCFJF
PS1109	1 1/4	C	3	BCFKF
PS758	1 1/2	C	1	BCFJF
PS659V	1 1/2	C	3	VCFKF



Conduit Box with Adjustable Bracket

Item ID	Frame
TACBB1	May be used on 48 & 42 Frame Motors



Flex Mount Brackets

Item ID	Diameter (In.)
TFM50	5
TFM55	5 5/8



Four Leg Torsion Flex Mount Bracket

Item ID	Diameter (In.)
TFM554	5 5/8



Flex Mount Bracket Adjustable Diameter

Item ID	Diameter (In.)
TFM556	5 - 5.5

Plastic insert allows you to adjust for 5" or 5.5" diameter.



Mounting Brackets

Item ID	Diameter (In.)	Frame
A60042	5	42
A60048	5 5/8	48

Kit includes: steel bracket with 3 welded legs, 3 steel sleeves, & 3 sets of rubber grommets.



Mounting Brackets

Item ID	Diameter (In.)	Frame
A80293	5.5	48
A80295	5.5	Long Lugs
KIT50L	4.4 & 5	Long Lugs



Universal Lug Mounting Bracket

Item ID	Diameter (In.)
1410A	5 5/8

Two mounting options. Small slots accepts 1/4" bolt. Large hole accepts 3/4" Rubber Grommet Kit (A60049K).



RHEEM Motor Mounting Bracket

Item ID	Brand
A60306K	Packard

Used on RHEEM condensing units.



RHEEM FLEX Mounting Bracket

Item ID	Brand
A61698K	Packard

Kit includes 4 brackets and 8 screws.



Mounting Kit

Item ID	Brand
KIT200	Fasco

Holes for 4.4" and 5.6" diameter motors. One kit will adapt both ends of motor for base mounting.



Condenser Fan Rainshield

Item ID	Dimensions (In.)	
	I.D.	O.D.
A61000	1/2	6.88
A61056	5/8	6.88



Condenser Fan Rainshield Deep Dish Style

Item ID	Dimensions (In.)	
	I.D.	O.D.
A80105	1/2	7



Rainshields - Plastic Deep Dish Style

Item ID	Dimensions (In.)	
	I.D.	O.D.
1411A	1/2	7
1412A	5/8	7



Shaft Adapters

Item ID	Dimensions (In.)		
	I.D.	O.D.	Length
A80427K	1/4	5/16	1.00
A80513K	5/16	3/8	1.06
A80082K	3/8	1/2	1.06
A60097K *	1/2	5/8	1.50

5 per package.
* Split bushing with key.



Shaft Extension Kits

Item ID	Diameter	Length
A61308K	1/4"	4 1/2"
A61310K	5/16"	4 1/2"
A61475K	1/2"	4 1/2"

Includes shaft coupler & shaft.



Shaft Adapter

Item ID	I.D. (in.)	Length (In.)
A60098	1/4	1

Used on unit bearing motors.



Rubber Grommet Kit

Item ID	Brand
A60049K	Packard

Used for 3/4 inch slots. Sheet metal screws and sleeves included. 3 per package.



Rubber Grommet Kit

Item ID	Brand
A60047K	Packard

Used for 1/2 inch slots.
6 per package.



Mounting Rings

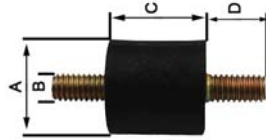
Item ID	Hub Ring Diameter (in.)
1220A	2 1/4
1182A	2 1/2
1255A	1 3/4



Rubber Vibration Insulator

Item ID	Studs Dimension (In.)
A61519K	3/8 x 8-32 x 3/8

Used on Coleman motors. Four per package.



Rubber Vibrator Insulators

Item ID	Dimension (In.)			
	A	B	C	D
A67804K	1	5/16	1	5/8
A67805K	1	1/4	3/4	1/2

4 per package.



Rheem Mounting Cables

Item ID	Length	For Motor
	(In.)	H.P.
A60325K	3 1/4	1/6
A60350K	3 1/2	1/4
A60378K	3 7/8	1/3



Conduit Box

Item ID	Diameter (In.)
KIT142	3.3
KIT144	4.4-5.0-5.6

For universal design motors with conduit connector holes only.



Conduit Kit

Item ID	Brand
A60102	Packard

3/8" Conduit Connector
Allen Stevens type, complete with mounting screws. Packaged three per kit.



Conduit Fitting

Item ID	Brand
1202A	Century

For 4 5/16" diameter motors



Anti-Wind Brakes

Item ID	Diameter (In.)
A60012	1/2
A60058	5/8

Used to stop wind milling of rooftop motors.



Unit Bearing Motor Bracket

Item ID	Brand
A68004	Packard

Bracket for unit bearing motors.



Sand Screen

Item ID	Brand
A52008	Packard

Used in preparation for brazing, soldering and epoxy repairs 1 1/2" x 72" roll



90 Degree Plug And Cord

Item ID	Length (In.)
PLUG018	25

Used with unit bearing motors: plug and cord assembly
UL Recognized



Straight Plug And Cord

Item ID	Length (In.)
PLUG119	25

Used with unit bearing motors: plug and cord assembly
UL Recognized



Capacitor Mounting Kit

Item ID	Brand
A60010	Packard

Bracket dimension: 2 1/8" x 1 1/4" Cover dimension: 1 5/8"



Cap Guard

Item ID	Brand
A60000	Packard

Weather proofs capacitor connections by simply sliding on to the capacitor. Fits oval caps 2 thru 17.5MFD 370V and 2 thru 12.5MFD 440V. Sheet metal screws included.



Pitch Gauge

Item ID	Brand
PG5099801	Packard



Fan Blade & Blower Wheel Puller

Item ID	Brand
A89000	Packard



Hubs With Set & Mtg Screws

Item ID	Bore	Set Screws
H60765801	1/4"	1
L60765802	5/16"	1
L60765803	3/8"	1
H60765804	1/2"	2
H60765805	5/8"	2
H60765806	3/4"	2



Shafts
1018 Cold Rolled Steel
Ground and Polished

Item ID	Diameter	Length
	(In.)	(In.)
S38220501	5/8	20
S38209601	3/4	20
S38269301	3/4	35
S38209501	1	25
S38249201	1	35



Capacitor Brackets

Item ID	Capacitor Length (In.)
A76501	4 3/8
A76502	3 3/8
A76503	2 3/4

For motor start capacitors.
5 per package.



Capacitor Brackets

Item ID	Diameter (In.)
A75400	1 3/4
A75500	2
A75600	2 1/2

For round motor run capacitors
5 per package.



Capacitor Brackets

Item ID	Dimensions (In.)	
	Width	Depth
A75100	1 5/16	2 5/32
A75200	1 29/32	2 29/32
A75300	1 31/32	3 21/32

For oval motor run capacitors.
5 per package.



Capacitor End Caps - Top Lead Hole

Item ID	Diameter (In.)
A76611	1 7/16
A76612	1 13/16
A76613	2 1/16
A76614	2 9/16

For motor start capacitors. Leads exit opposite bracket. 5 per package.



Capacitor End Caps - Bottom Lead Hole

Item ID	Diameter (In.)
A76601	1 7/16
A76602	1 13/16
A76603	2 1/16
A76604	2 9/16

For motor start capacitors. Leads exit through bracket. 5 per package.



Capacitor Jumpers

Item ID	Length (In.)
A63004	4
A63104	4
A63006	6

With 1/4" female terminals.
10 per package.



Capacitor Resistor
With 1/4" Female Terminals

Item ID	OHMS	Watts
A63106	15000	2

With 1/4" Female Terminals.
10 per package.



Capacitor Resistor

Item ID	OHMS	Watts
A63105	15000	2

10 per package.



Rubber Boots

(Lead Protectors For Motor Run Capacitors)

Item ID	Hole Location
A76000	1 Hole on End
A76001	1 Hole on Top
A76002	2 Hole on Top
A76003	3 Hole on Side

5 per package.



Item ID Description

Item ID	Description
CT1	Digital Capacitor Tester

- Range 2 MFD to 2000 MFD
- Accuracy ±5%
- Color coded test leads
- Insulated rubber casing
- 9 Volt battery included
- Fuse protected



Heat Gun

Item ID	Brand
HG1000	Packard

- 120 Volt AC • 12 Amps • 4 tips included
- Double insulated • UL listed
- Low setting 750 Watts
- High setting 1500 Watts



Hex Bit

Item ID	Length (In.)
PHB316	3/16



Ratchet Wrenches

Item ID	Square Size (In.)
PRW516	1/4-3/8-3-16-5/16

Reversible. 4 sizes per wrench.

Magjumper - The Magnetic Jumper



Features

- Ideal for low voltage trouble shooting
- Designed by and for service technicians
- No more popping off terminals
- Great for recessed terminals



Item ID	Description
Evolve	
EJMP	Magjumper Mag 1 - Recessed Tip
EJMPB	Magjumper Mag 1 - Blue Tip
EJMPG	Magjumper Mag 1 - Green Tip
EJMPP	Magjumper Mag 1 - Red Tip
EJMPPK	Magjumper Mag 1 - Black Tip

Terms and Conditions

1. Prices are those in effect at time of shipment. Prices are subject to change without notice.
2. Minimum order requirement is \$25.00.
3. All shipments are F.O.B. shipping point.
4. On single release orders of \$2000.00 or more, Packard ships prepaid to the first destination within the continental U.S. Method of shipment is at the discretion of Packard. Orders less than \$2000.00 will be shipped freight prepaid with the freight charge added to the invoice. If the customer specifies the carrier on a charge freight order, the order will be shipped freight collect.
5. Air shipment or other premium shipping method may be specified at the customer's expense.
6. Claims for shortages must be reported within five business days following the date of delivery. Shortages must also be noted on the freight bill.
7. Damages must be reported immediately and the customer must note on the bill of lading, shipment damaged and/or subject to count/inspection. Damaged product is to be kept for 30 days after claim is reported.
8. Terms: net 30 to all customers having approved credit standing.
9. Items cannot be returned without return authorization.
10. All items returned will receive a 20% restocking charge. Customer pays return freight. All returns must be within 30 days from date of shipment and be new, in original packaging clean and unmarked.
11. Possession of this catalog does not constitute an offer to sell.

Warranty Procedures

1. All items sold by Packard, Inc. are warranted against defects in workmanship or materials under normal use for a period of one year.
2. All Electric Motors and Specialties (E.M.S) Motors, McMillan and Morrill Motors **MUST BE RETURNED TO PACKARD, INC.** for proper credit. Please call for authorization to return these motors and remember to check the date codes before shipping to avoid shipping charges for an out of date warranty motor. E.M.S. Motors and Morrill Motors are covered for eighteen (18) months from the manufacturer's date code on the motor, C-Frame motors are covered for twelve (12) months from the manufacturer's date code on the motor and all other motors are covered for two (2) years from the manufacturer's date code on the motor or one year after installation, whichever comes first. For all other motors, please return the original nameplate (label or sticker (copies of the label will not be accepted)). The nameplate can be mailed to us for proper credit however, nameplates cannot be received by fax or email for credit. **** THIS ALSO APPLIES TO ALL CAPACITORS, TRANSFORMERS, BLOWER WHEELS, FAN BLADES, CONTACTORS, ETC. FOR THESE ITEMS, JUST MAIL IN THE NAME PLATE, THANK YOU.**
3. Authorization must be obtained from Packard, Inc. by the purchaser before returning any merchandise. Returned merchandise will not be accepted without an authorization number.
4. For Danfoss, Embraco or Bristol products, please contact Packard, Inc. Warranty Department for further instructions.
5. For each product on your warranty request, please provide a brief description of the reason for the warranty claim.
6. Credits are **NOT** to be taken by customer until merchandise or original nameplate has been received by Packard, Inc. and credit is issued.
7. Credit will be issued within two weeks after receipt.

CREDIT APPLICATION FORM

Customer Number:



Credit Application Business Account

Packard, Inc.
1925 Shiloh Rd Bldg 2
Kennesaw, GA 30144
Phone: 770.427.5765
Fax: 770.427.5140
customerservice@packardonline.com

BUSINESS CONTACT INFORMATION

Contact Name:		Title:	
Company Name:		Buying Group:	
Phone:	Fax:	E-mail:	
Physical Address:			
City:		State:	Zip Code:
Mailing Address:(If Different)			
City:		State:	Zip Code:
Shipping Address:(If Different)			
City:		State:	Zip Code:
Type of Business:		Date Business Commenced:	
<input type="checkbox"/> Sole Proprietorship:	<input type="checkbox"/> Partnership:	<input type="checkbox"/> Corporation:	<input type="checkbox"/> Other:
Purchasing Agent:		Email Address:	
Payables Contact:		Email Address:	
Sales Tax Exemption Number:		<i>(Please attach a copy of the Certificate)</i>	

BANK INFORMATION

Bank Name:		Contact:	
Phone:	Fax:	Email:	
Checking Account Number:		Savings Account Number:	

BUSINESS/TRADE REFERENCES

Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			
Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			
Company Name:			
Address:			
City:		State:	Zip Code:
Phone:	Fax:	E-mail:	
Type of Account:			

AGREEMENT

SHOULD YOU APPROVE THIS APPLICATION, I (WE) AGREE TO PAY FOR ALL GOODS PURCHASED WITHIN THE GIVEN NET 30 DAY TERMS ON EACH INVOICE. PACKARD INC. IS AUTHORIZED TO CONTACT ANY REFERENCES OR BANKS LISTED ABOVE. IT IS UNDERSTOOD THAT ANY INFORMATION SO OBTAINED WILL BE USED SOLELY FOR GRANTING CREDIT. SERVICE CHARGES AT THE HIGHEST RATE PERMITTED BY STATE LAW WILL BE APPLIED TO PAST DUE ACCOUNTS.

SIGNATURES

Title:	Title:
Date:	Date:

**Please email application and attachments to customerservice@packardonline.com.*





**We've been fine tuning our lineup
to ensure a successful season.**

TITAN PRO™

440/370 volt

reduces inventory costs



New **TITAN PRO 370™**

370 volt offers

best value in class



Our entire PRO line runs up to 83% longer than a standard motor run capacitor* and is EIA-456A compliant. See p. 98-99

* comparing Titan PRO capacitors with an operating life of 60,000 hours to a motor run capacitor with an operating life of 10,000 hours

RED, WHITE AND NEW



**INTRODUCING
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