



SMART ELECTRIC PRODUCT CATALOG



SE



SES 5
SES HARD START
HARD COMPRESSOR STARTING MOTOR



Smart  **Electric**™

Toll Free 1-866-591-9898
www.smartelectricusa.com

SMART ELECTRIC PRODUCT CATALOG

GREAT
REASONS
TO BUY
50
SMART

1 MISSION STATEMENT

At Smart Electric we are committed to delivering world-class results. Our mission is to provide our customers with competitive pricing, while offering superior quality products and service. Continuous innovations eliminate non-value added steps, therefore providing added savings to our customers. We will strive to ensure error-free transactions and on-time delivery. Our goal is to satisfy our customers by making every experience with us enjoyable, easy and convenient.

2 GREEN PROMISE

Smart Electric has been focused on HVACR components for over a decade. The 100+ years of combined management experience allows us to design, develop, and utilize "Smart" processes to help the environment. We are continuously looking for new ways and designs to assist in our Green effort.

3 PROPRIETARY PRODUCTS

Smart Electric products are sold only by us to HVACR Wholesalers. The products are never sold through "Big Box" stores or the internet. This allows us to give our customers the opportunity to sell products specifically made for their customer-the licensed contractor.

4 ORDERING & DELIVERY

Products may be ordered by email to sales@eairllc.com or by sending us a FAX to 305-500-9896. Generally orders are acknowledged the same day and ship within 1 day. Prepaid freight terms are listed on all of our price sheets and seasonal programs. If you need the name of our local representative, please do not hesitate to call us at 866-591-9898, and our customer service department will assist you.

5 "SMART VALUE" PROPOSITIONS vs THE "ME TOO" INDUSTRY

Smart Electric products offer the following propositions that make our line a Real True Value:

- Competitive Pricing • Quality • Strength of Product Offering
- Inventory • Delivery • Incentives
- Value Added Service • Home Office Support
- Most Important-Valued Relationships!



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SAFE





SMART ELECTRIC MOTORS

Smart Electric up/down outdoor condenser fan motors are designed for either vertical shaft-up or shaft-down applications. Shell and end shields are enclosed for weather protection.

A weep hole is provided in each end shield to allow condensate to drain. A plastic plug is provided to seal the weep hole to protect against external weather conditions.

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VERTICAL CONDENSER FAN MOTORS



SE3729

FEATURES:

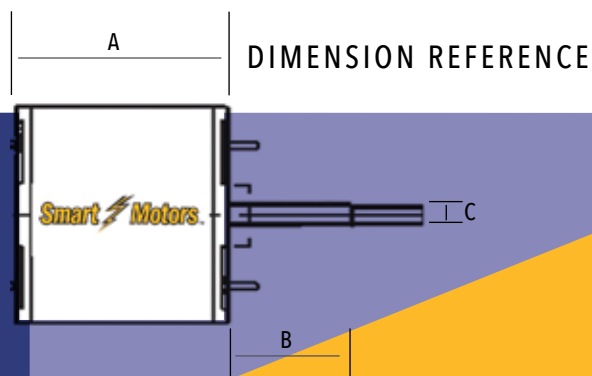
- Up/down design
- Reversible rotation
- Thru bolt or band mounting
- All angle sleeve or ball bearings
- Water slinger on shaft
- 5 1/2" diameter
- Full six inch shaft length

SPECIFICATIONS

- Automatic overload
- Operating temp -4°F -104°F (-20°C-60°C)
- Class B insulation
- 26" leads
- Single phase
- Totally enclosed, non-ventilated
- Thermal protection

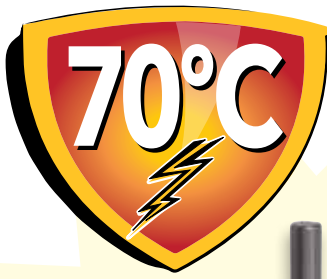
UP
AND DOWN
DESIGN

OPERATING
TEMP -4°F -104°F
(20°C-60°C)



C  US

PART NO.	HP	VOLTS	AMPS	RPM	SPEED	FRAME	HZ	ROT	MOTOR TYPE	BEARING	CAPACITOR	A	B	C
SE3727	1/6	208/230	1	1075	1	48	60	REV	TOTALLY ENC.	SLEEVE	5/370	6"	4.71"	1/2"
SE3728	1/4	208/230	1.8	1075	1	48	60	REV	TOTALLY ENC.	SLEEVE	5/370	6"	4.25"	1/2"
SE3729	1/3	208/230	2.4	1075	1	48	60	REV	TOTALLY ENC.	SLEEVE	7.5/370	6"	4.5"	1/2"
SE3730	1/2	208/230	3.5	1075	1	48	60	REV	TOTALLY ENC.	SLEEVE	10/370	6"	5.25"	1/2"
SE3731	3/4	208/230	3.9	1075	1	48	60	REV	TOTALLY ENC.	SLEEVE	10/370	6"	5.75"	1/2"
SE3732	1/4	208/230	1.8	1075	1	48	60	REV	TOTALLY ENC.	BALL	5/370	6"	4.23"	1/2"
SE3338	1/4	208/230	1.5	825	1	48	60	REV	PSC	BALL	7.5/370	6.5"	4.62"	1/2"
SE3733	1/3	208/230	2.4	1075	1	48	60	REV	TOTALLY ENC.	BALL	7.5/370	6"	4.48"	1/2"
SE3339	1/3	208/230	2	825	1	48	60	REV	PSC	BALL	10/370	6.5"	5.62"	1/2"
SE3734	1/2	208/230	3.7	1075	1	48	60	REV	TOTALLY ENC.	BALL	10/370	6"	5.23"	1/2"
SE3735	3/4	208/230	5.1	1075	1	48	60	REV	TOTALLY ENC.	BALL	10/370	6"	5.98"	1/2"



HIGHEST OPERATING TEMPERATURE 158°F/70°C IN THE INDUSTRY

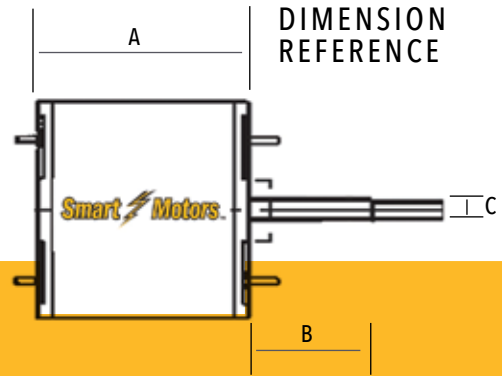


HOTe CONDENSER MOTORS

FEATURES:

- 1075 rpm
- Short 4" body
- Operating temp -4°F - 158°F (-20°C - 70°C)
- Rheem mounting holes
- 36" leads
- Thermal protection
- Reversible rotation
- Totally enclosed
- 1/2" x 5" shaft
- Multi-horse application

1075 RPM



208-230V CONDENSER FAN MOTOR 70C AMBIENT



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	FRAME	HZ	ROT	MOTOR TYPE	BEARING	CAPACITOR	INS CLASS	A	B	C
SE3178	1/4	208-230V	2.1	1075	1	48	60	REV	PSC	BALL	5µF/370V	F	4 5/8"	6 1/2"	1/2"
SE3378	1/4	208-230V	1.5	825	1	48	60	REV	PSC	BALL	7.5µF/370V	F	4 5/8"	6 1/2"	1/2"
SE3179	1/3	208-230V	3	1075	1	48	60	REV	PSC	BALL	7.5µF/370V	F	4 5/8"	6 1/2"	1/2"
SE3379	1/3	208-230V	2	825	1	48	60	REV	PSC	BALL	10µF/370V	F	5 5/8"	6 1/2"	1/2"

460V CONDENSER FAN MOTOR 70C AMBIENT

PART NO.	HP	VOLTS	AMPS	RPM	SPEED	FRAME	HZ	ROT	MOTOR TYPE	BEARING	CAPACITOR	INS CLASS	A	B	C
SE4128	1/4	460V	0.9	1075	1	48	60	REV	PSC	BALL	7.5µF/370V	F	4 5/8"	6 1/2"	1/2"
SE4129	1/3	460V	1.5	1075	1	48	60	REV	PSC	BALL	7.5µF/370V	F	5 5/8"	6 1/2"	1/2"
SE4130	1/2	460V	2.4	1075	1	48	60	REV	PSC	BALL	10µF/370V	F	6 1/8"	6 1/2"	1/2"
SE4131	3/4	460V	2.4	1075	1	48	60	REV	PSC	BALL	10µF/370V	F	6 1/8"	6 1/2"	1/2"

SMART ELECTRIC PSC MOTORS: Designed for use as direct drive furnace blower motors. Choose from three-speed or two-speed, standard efficiency models. All are electrically reversible and include 2 1/4" resilient rings for base mounting. Four (4) split rings included if 2 1/2" diameter required. Bases are sold separately.

48 FRAME
SE3583



PSC FURNACE BLOWER MOTORS

FEATURES:

- 4" length, 1/2" diameter shaft
- 2 1/4" resilient rings, 4 split rings
- All angle sleeve bearings
- Reversible rotation
- 3 speeds
- 5 1/2" diameter
- 1/2" extended thru bolts

4" LENGTH
1/2" DIAMETER
SHAFT

OPERATING
TEMP -4°F -104°F
(20°C-60°C)

SPECIFICATIONS

- Automatic overload
- Operating temp -4°F -104°F (-20°C-60°C)
- Class B insulation
- 26" leads
- Single phase
- Totally enclosed, non-ventilated
- Thermal protection



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	FRAME	HZ	ROT	MOTOR TYPE	BEARING	CAPACITOR	A	B	C
SE3583	1/4	115	4.2	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	4.89"	1/2"
SE3584	1/4	208-230	2	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	4.89"	1/2"
SE3585	1/3	115	6.2	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	5.14"	1/2"
SE3586	1/3	208-230	2.9	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	5.14"	1/2"
SE3587	1/2	115	9	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	6.14"	1/2"
SE3588	1/2	208-230	4.3	1075	3	48	60	REV	OPEN VENT	SLEEVE	5/ 370	4"	5.69"	1/2"
SE3589	3/4	115	10.3	1075	3	48	60	REV	OPEN VENT	SLEEVE	15/ 370	4"	6.14"	1/2"
SE3590	3/4	208-230	4.6	1075	3	48	60	REV	OPEN VENT	SLEEVE	10/ 370	4"	6.14"	1/2"

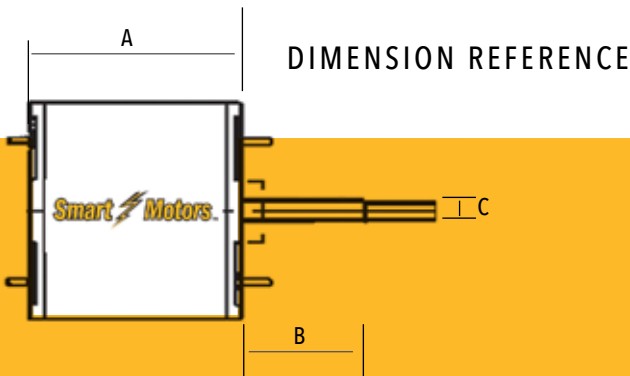
MULTI HORSE POWER CONDENSER MOTORS

FEATURES:

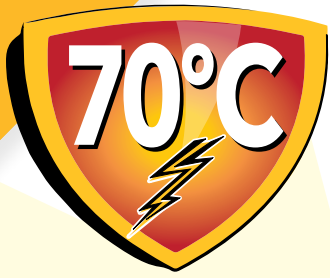
- 1075 RPM
- Reversible rotation
- Totally enclosed
- 1/2" x 5" shaft
- Multi-horse application
- Short 4" body
- Operating temp -4°F - 104°F(-20°C - 60°C)
- Rheem mounting holes
- 36" leads
- Thermal protection

1075 RPM

OPERATING TEMP -4°F -104°F (20°C-60°C)



PART NO.	HP	VOLTS	SPEED	CAP @208V	CAP @230V	RPM	AMPS	ROT	MOTOR TYPE	BEARING	A	B	C
SE3469	1/3	208-230	HIGH	10MFD	7.5MFD	825	1.9	REV	TOTALLY ENC	BALL	4"	5.24"	1/2"
	1/4		HIGH	10MFD	7.5MFD		1.5						
	1/5		LOW	10MFD	7.5MFD		1.2						
	1/6		LOW	10MFD	7.5MFD		1						
SE3465	1/3	208-230	HIGH	7.5MFD	5MFD	1075	2.8	REV	TOTALLY ENC	BALL	4"	4.86"	1/2"
	1/4		HIGH	7.5MFD	5MFD		2						
	1/5		LOW	7.5MFD	5MFD		1.7						
	1/6		LOW	7.5MFD	5MFD		1.5						
SE3468	1/2	208-230	HIGH	12.5MFD	10MFD	1075	3.9	REV	TOTALLY ENC	BALL	4"	5.24"	1/2"
	1/3		HIGH	12.5MFD	10MFD		2.2						
	1/4		LOW	12.5MFD	10MFD		1.6						
	1/5		LOW	12.5MFD	10MFD		1.3						



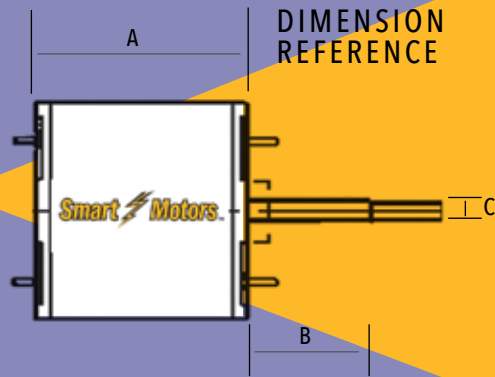
HOTe MULTI HORSE POWER CONDENSER MOTORS

FEATURES:

- 1075 rpm
- Short 4" body
- Operating temp -4°F - 158°F (-20°C - 70°C)
- Rheem mounting holes
- 36" leads
- Thermal protection
- Reversible rotation
- Totally enclosed
- 1/2" x 5" shaft
- Multi-horse application

1075 RPM

HIGHEST OPERATING TEMPERATURE 158°F/70°C IN THE INDUSTRY



208-230V MULTI HORSEPOWER CONDENSER FAN MOTOR 70C AMBIENT



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	FRAME	HZ	ROT	MOTOR TYPE	BEARING	CAPACITOR	INS CLASS	A	B	C
SE3377	1/6-1/3	208-230V	2.6-2.1.7-1.5	1075	2	48	60	REV	PSC	BALL	5µF 7.5µF/370V	F	4 7/8"	6"	1/2"
SE3177	1/6-1/3	208-230V	1.9-1.5-1.2-1	825	2	48	60	REV	PSC	BALL	7.5µF 10µF/370V	F	5 1/4"	5"	1/2"

MULTI HORSE POWER DIRECT DRIVE FAN & BLOWER MOTORS

FEATURES:

- 1075 rpm
- Reversible rotation
- Continuous air over
- Semi-enclosed construction
- Multi-horse application
- PSC
- Operating temp 32°F - 104°F (0°C - 40°C)
- 3 speeds
- 2-1/4" - 2-1/2" res. rings
- Thermal protection



1075 RPM

**OPERATING
TEMP 32°F - 104°F
(0°C - 40°C)**

PART NO.	HP	VOLTS	SPEED	CAPACITOR	RPM	AMPS	ROT	MOTOR TYPE	BEARING	A	B	C
SE3463	1/2	115	ALL	10MFD	1075	7	REV	OPEN VENT	SLEEVE	4.86"	5"	1/2"
	1/3		ALL	5MFD/ 7.5		6.7						
	1/4		L, ML, MH	5MFD/ 7.5		4.4						
	1/5		L, ML	5MFD/ 7.5		3.2						
	1/6		LOW	5MFD/ 7.5		2.4						
SE3464	1/2	208-230	ALL	10MFD	1075	3.9	REV	OPEN VENT	SLEEVE	4.86"	5"	1/2"
	1/3		ALL	5MFD/ 7.5		3.6						
	1/4		L, ML, MH	5MFD/ 7.5		2.5						
	1/5		L, ML	5MFD/ 7.5		1.8						
	1/6		LOW	5MFD/ 7.5		1.3						
SE3466	3/4	115	ALL	10MFD	1075	9.1	REV	OPEN VENT	BALL	4.86"	5"	1/2"
	1/2		ALL	10MFD		6.8						
	1/3		ALL	5MFD/ 7.5		5.5						
	1/4		L, ML, MH	5MFD/ 7.5		3						
	1/5		L, ML	5MFD/ 7.5		2.3						
SE3467	3/4	208-230	ALL	10MFD	1075	3.9	REV	OPEN VENT	SLEEVE	4.86"	5"	1/2"
	1/2		ALL	10MFD		3.6						
	1/3		ALL	5MFD/ 7.5		3						
	1/4		L, ML, MH	5MFD/ 7.5		2.3						
	1/5		L, ML	5MFD/ 7.5		2						



MINI-MULTI™ PSC SHADED POLE

FEATURES:

- Reversible plug for easy rotation
- Class B Insulation
- Extra mounting nuts for quick installation
- Energy efficient
- Quiet operation
- Ball bearing
- Dual voltage 115/208-230 voltage
- 4 MFD capacitor pre-mounted on motor
- Automatic overload
- Operating temp 32°F -104°F (0°C-40°C)
- Thermal protection

**REVERSIBLE
PLUG FOR EASY
ROTATION**

**OPERATING
TEMP 32°F -104°F
(0°C-40°C)**



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING
SE8888	1/12	115/ 208-230	1.1/.5	1550	1	3.3"	50/60	CW/CCW	OPEN VENT	SLEEVE

CROSS REFERENCE

SMART	FASCO	FASCO	FASCO	AO SMITH	EMERSON	GE	OEM #
SE8888	D1101	D1126	7163-2113	9721	9650	5KSM59ES2001	25308601
	D1103	D1127	7163-3371	-	9651	5KSM59JSK143S	25309101
	D1122	D1152	7090-0442	-	9652	5KSM59JS5036S	2531194
	D1123	D1154	7190-2084	-	9653	5KSM59LS2262AS	2531195
	D1124	PD1125	7190-2255	-	9656	-	7071061
	D1125	PD1127	7190-2285	-	9664	-	-
	-	-	7190-2969	-	-	-	-

3.3 SHADED POLE MOTOR SERIES

FEATURES:

- Full flatted black oxide shafts
- Class B insulation
- Original OEM-type wiring
- Original OEM-type mounting
- Quiet operation
- Energy efficient
- Automatic overload
- Operating temp 32°F -104°F (0°C-40°C)
- Thermal protection

**FULL FLATTED
BLACK
OXIDE SHAFTS**

**OPERATING
TEMP 32°F -104°F
(0°C-40°C)**

LARKIN COIL



BOHN



3.3 SHADED POLE MOTOR SERIES - BOHN



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING
SE24	1/20	115	2.1	1550	1	3.3"	50/60	CW	OPEN VENT	SLEEVE
SE26	1/15	230	1.1	1550	1	3.3"	50/60	CW	OPEN VENT	SLEEVE

3.3 SHADED POLE MOTOR SERIES - LARKIN COIL

PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING
SE01	1/20	115	1.9	1550	1	3.3"	50/60	CCW	OPEN VENT	SLEEVE
SE02	1/20	230	1.15	1550	1	3.3"	50/60	CCW	OPEN VENT	SLEEVE

CROSS REFERENCE

SMART	A. O. SMITH	BOHN	FASCO	LARKIN	MAGNETEK
SE24	A01124, 5034LS, 5008SS	5SM59JS1435	D1124	-	572
SE26	A01126, 5034MS, 5008TS	5SM59S262AS	D1126	-	573
SE01	A01101	-	D1101	253-1194	574
SE02	A01103	-	D1103	253-1195	575



GENERAL PURPOSE MOTORS

FEATURES:

- Totally enclosed air over
- Stud mount
- Sleeve bearing
- Quiet operation
- Energy efficient
- Automatic overload
- Operating temp 32°F - 104°F (0°C - 40°C)
- Thermal protection

**TOTALLY
ENCLOSED
AIR OVER**

**OPERATING
TEMP 32°F - 104°F
(0°C - 40°C)**

Smart[®]
C **Smart** **US**

PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING	SHAFT
SE122	1/80	115	0.65	1550	1	3.3"	50/60	CW	TOTALLY ENC.	SLEEVE	1/4" - 2.28"
SE123	1/80	115	0.65	1550	1	3.3"	50/60	CCW	TOTALLY ENC.	SLEEVE	1/4" - 2.28"
SE124	1/50	115	0.88	1550	1	3.3"	50/60	CW	TOTALLY ENC.	SLEEVE	1/4" - 2.28"
SE1255	1/50	115	0.88	1550	1	3.3"	50/60	CCW	TOTALLY ENC.	SLEEVE	1/4" - 2.28"
*SE1541	1/100	115	0.7	1550	1	3.3"	50/60	CCW	TOTALLY ENC.	SLEEVE	1/4" - 1.22"
*SE109	1/100	115	0.7	1550	1	3.3"	50/60	CCW	TOTALLY ENC.	SLEEVE	1/4" - 1.26"
*SE11540	1/100	115	0.7	1550	1	3.3"	50/60	CW	TOTALLY ENC.	SLEEVE	1/4" - 1.22"

* Plug & cord included

CROSS REFERENCE

SMART	PACKARD	MAGNETEK	FASCO	BOHN	LARKIN	NUTONE
SE122	40122	16	D122	-	-	-
SE123	40123	17	D123	-	-	-
SE124	40124	20	D124	-	-	-
SE1255	40125	21	D125	-	-	-
*SE1541	82512	510	D541	-	-	-
*SE109	82513	509	D1109	-	-	-
*SE11540	82514	692	D540	-	-	-

GENERAL PURPOSE MOTORS

FEATURES:

- Totally enclosed air over
- Stud mount
- Sleeve bearing
- Quiet operation
- Energy efficient
- Automatic overload
- Operating temp 32°F -104°F (0°C-40°C)
- Stud mount
- Thermal protection

TOTALLY ENCLOSED AIR OVER

OPERATING TEMP 32°F -104°F (0°C-40°C)



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING	SHAFT
SE132	1/20	115	1.8	1550	1	3.3"	50/60	CW	OPEN VENT	SLEEVE	3/16" - 2.48"
SE1133	1/20	115	1.8	1550	1	3.3"	50/60	CCW	OPEN VENT	SLEEVE	3/16" - 2.48"
SE188	1/20	208/230	0.8	1550	1	3.3"	50/60	CW	OPEN VENT	SLEEVE	5/16" - 2.25"
SE189	1/20	208/230	0.8	1550	1	3.3"	50/60	CCW	OPEN VENT	SLEEVE	5/16" - 2.25"

CROSS REFERENCE

SMART	PACKARD	MAGNETEK	FASCO	BOHN	LARKIN	NUTONE
SE132	40132	30	D132	-	-	-
SE1133	40133	31	D133	-	-	-
SE188	40188	396	D188	-	-	-
SE189	40189	398	D189	-	-	-



SE194

OEM REFRIGERATION FAN MOTORS

FEATURES:

- Open vent
- Stud mount
- Sleeve bearing
- Quiet operation
- Energy efficient
- Automatic overload
- Operating temp 32°F -104°F (0°C-40°C)
- Thermal protection

OPEN VENT

OPERATING
TEMP 32°F -104°F
(0°C-40°C)

SMART ELECTRIC MOTORS

Smart Electric refrigeration motors are open vent and can be stud mounted. Designed for quiet operation and energy efficient our motors are quality tested for you.

All of these have a high operating temperature for all exterior applications. Motors are UL registered and thermally protected for longer life.



PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING
SE194	1/20	115	1.9	1550	1	3.3"	60	CCW	TOTALLY ENCLOSED	SLEEVE
SE195	1/20	208-230	.89	1550	1	3.3"	60	CCW	TOTALLY ENCLOSED	SLEEVE

CROSS REFERENCE

SMART	PACKARD	MAGNETEK	FASCO	BOHN	LARKIN	NUTONE
SE194	41194	-	-	-	2541194	-
SE195	45008S	-	-	-	2541195	-

OEM DIRECT REPLACEMENT MOTOR

FEATURES:

- Open vent or totally enclosed
- Stud mount
- Sleeve or ball bearing
- Quiet operation
- Energy efficient
- 1320/1550/3000 RPM
- Automatic overload
- Operating temp -4°F -104°F (-20°C-60°C)
- Thermal protection



SE2510



OPEN VENT OR TOTALLY ENCLOSED

OPERATING TEMP -4°F -104°F (-20°C-60°C)

PART NO.	HP	VOLTS	AMPS	RPM	SPEED	DIA	HZ	ROT	MOTOR TYPE	BEARING
SE2635	1/91	115	0.45	1550	1	3.3"	60	CCW	TOTALLY ENCLOSED	SLEEVE
SE228	1/80	115	0.65	3000	1	3.3"	60	CW	OPEN VENT	SLEEVE
SE2637	1/75	115	0.63	1550	1	3.3"	60	CCW	TOTALLY ENCLOSED	SLEEVE
SE2510	1/70	115	0.85	1320	1	3.3"	60	CW	OPEN VENT	SLEEVE
SE1106	1/50-1/80	115	1.0-0.6	3000	1	3.3"	60	CW	TOTALLY ENCLOSED	SLEEVE
SE1107	1/10	115	3.8	1550	1	3.3"	60	CCW	OPEN VENT	BALL

CROSS REFERENCE

SMART	PACKARD	MAGNETEK	FASCO	BOHN	LARKIN	NUTONE
SE2635	82635	635	-	-	-	54123/54257
SE228	80600	541	D228	-	-	C16653
SE2637	82637	637	-	-	-	53581
SE2510	82510	-	-	-	-	C65073
SE1106	82733	496	D1106	-	-	C26733
SE1107	82621	621	D1107	-	-	67176/32997

5 SERIES UNIT BEARING WATT MOTORS

SE5411



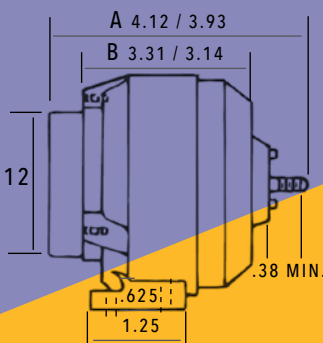
FEATURES:

- Cast iron construction
- 26" minimum leads
- Continuous air over
- Overload protection
- All angle operation
- Quiet operation
- Improved permanent lubrication
- 50 / 60 hz
- Sleeve bearings
- Side pad mounting
- Operating temp 32°F - 104°F (0°C - 40°C)
- Thermal protection

CAST IRON CONSTRUCTION

OPERATING TEMP 32°F - 104°F (0°C - 40°C)

DIMENSION REFERENCE 2.312



1550 RPM - 1/4 - 20 THREADED SHAFT



PART NO.	WATTS	VOLTS	RPM	AMPS	LEAD LENGTH	ROTATION
SE5109	2	115	1550	0.426	26"	CW
SE5311	6	115	1550	0.40	26"	CW
SE5312	6	115	1550	0.40	26"	CCW
SE5411	9	115	1550	0.50	26"	CW
SE5412	9	115	1550	0.50	26"	CCW
SE5421	9	230	1550	0.25	26"	CW
SE5422	9	230	1550	0.25	26"	CCW
SE5811	16	115	1550	1.00	24"	CW
SE5812	16	115	1550	1.00	24"	CCW
SE5821	16	230	1550	.50	24"	CW
SE5822	16	230	1550	.50	24"	CCW

SMART ELECTRIC 51 FRAME MOTORS: Used in refrigerators, freezers, food & beverage coolers, vending machines, display cases and many other fan duty applications.

SHADED POLE WATT MOTORS -THREADED-

FEATURES:

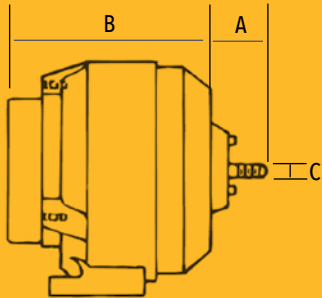
- Cast iron construction
- Threaded shaft
- Overload protection
- Single speed
- Continuous air over
- Improved permanent lubrication
- Operating temp 32°F - 104°F (0°C - 40°C)
- Long life unit bearing construction
- Varnish impregnated windings for high moisture environments
- Thermal protection

CAST IRON CONSTRUCTION

OPERATING TEMP 32°F - 104°F (0°C - 40°C)



DIMENSION REFERENCE



1500 RPM - 1/4" THREADED SHAFT



PART NO.	REPLACES EMS NO. ESP.	WATTS	VOLTS	AMPS	ROT	A	B	C
SE351	L35EM1	35	115	1.4	CW	.50"	3.50"	1/4"
SE352	L35EMR1	35	115	1.4	CCW	.50"	3.50"	1/4"
SE353	L35EM2	35	230	0.7	CW	.50"	3.50"	1/4"
SE354	L35EMR2	35	230	0.7	CCW	.50"	3.50"	1/4"

SHADED POLE WATT MOTORS -SMOOTH-



SE501

FEATURES:

- Cast iron construction
- Smooth shaft
- Overload protection
- Single speed
- Continuous air over
- Improved permanent lubrication
- Operating temp 32°F - 104°F (0°C - 40°C)
- Long life unit bearing construction
- Varnish impregnated windings for high moisture environments
- Thermal protection

**CAST
IRON
CONSTRUCTION**

**OPERATING
TEMP 32°F - 104°F
(0°C - 40°C)**



PART NO.	EMS NO. ESP.	WATTS	VOLTS	AMPS	ROT	A	B	C
SE501	OL50EM1	50	115	1.7	CW	1.50"	4.50"	3/8"
SE502	OL50EMR1	50	115	1.7	CCW	1.50"	4.50"	3/8"
SE505	OL50EM2B	50	230	.85	CW	1.50"	4.50"	3/8"
SE504	OL50EMR2	50	230	.85	CCW	1.50"	4.50"	3/8"

1500 RPM - SMOOTH SHAFT



SE502



SE505



SE504

C-FRAME EVAPORATOR FAN MOTOR SERIES

FEATURES:

- Recirculating oil system
- UL and CSA recognized
- All angle mount
- Mechanically reversible
- Impedance protection
- Includes 4" CW fan blade, 5 1/2" CCW fan blade, mounting bracket, 1 1/4" shaft adapter and hub adapter

SPECIFICATIONS:

- Class A insulation
- Sleeve Bearings
- 60 Hz
- 3000 RPM



APPLICATIONS:

- Range hoods / Exhaust fans
- Evaporators
- Walk in coolers
- Reach in refrigerators
- Electric unit heaters



3000 RPM -MECHANICALLY REVERSIBLE

PART NO.	HP	VOLTAGE	AMPS	SHAFT	STAC
SC670	1/130	120	0.41	1.42" x 3/16"	5/8"
SC672	1/130	240	0.32	1.42" x 3/16"	5/8"

CROSS REFERENCE

PART NO.	M & A	ACME-MIAMI	GEM	UNI-LINE/ROBERT SHAW	SUPCO
SC670	90971	600 / 700 / 710 AM-4670	EM670	33-670 (14001)	SM-670



C-FRAME EVAPORATOR FAN MOTORS

FEATURES:

- Break-off shaft
- Single speed reversible CW or CCW rotation
- Replaces any OEM motor
- Complete with accessories and instructions
- Mounting accessories and hardware included

SPECIFICATIONS:

- Shaft: 1/8" diameter with adaptors for 3/16" and hub less fans
- Speed: 3000 RPM
- Overload protection: impedance protected
- Electrical rating: SC99, 115V, 50/60 Hertz SC98, 220V, 50/60 Hertz

C-FRAME EVAPORATOR FAN MOTOR



PART NO.	DESCRIPTION	VOLTS
SC99	Multi-fit with accessories	115V, 50/60 Hz
SC98	Multi-fit with accessories	220V, 50/60 Hz



SC-EXACT REPLACEMENT MOTORS

FEATURES:

- Specifications are exactly as OEM requirements
- Used in domestic refrigerator and freezer evaporators



PART NO.	DESCRIPTION	VOLTS	REPLACES
SC317	C-Frame	115	GE/Hotpoint, WR60X85, WR60X100, WR60X102, WR60X162, WR60X5005, MARS90917, Supco SM317, GEM EM317
SC329	C-Frame	115	Whirlpool 482731, 4318001, 2169116, Supco SM329, GEM EM329

SMART ELECTRIC LUGS: For applications where motor being replaced has mounting lugs attached to shell. Lug ring may be positioned anywhere on the motor shell and lugs may be rotated on ring clamp to required radial position. Will fit 5 1/2" and 5 5/8" diameter motors.

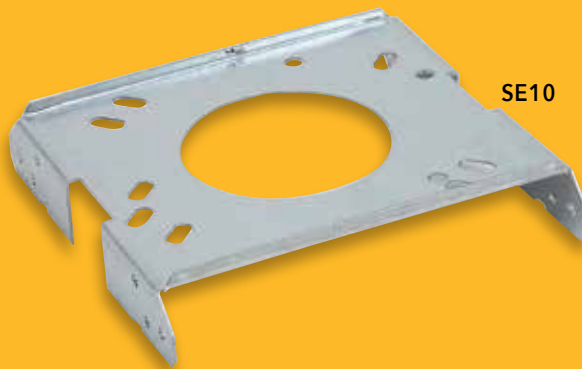


LUG RING

PART NO.	DESCRIPTION	ASSEMBLY DRAWING NO.
SE135	48 Frame Motor	Rigid JOK
SE131	48 Frame Motor	Solid JOK
SE133	52 Frame Motor	Solid JOK

RHEEM MOTOR BRACKET

- Multi position aluminum bracket



MOUNTING BRACKET

- Torsion-flex mounting adapter kit for 9" and 10" blowers



SMART CONDENSATE PUMP

FEATURES:

- Vertical type condensate pump
- 1/2 gallon leak-proof, rustproof, ABS water tank
- Available in 115v or 230v
- 15' or 20' Shut-Off Head
- 3/8" OD barbed discharge adapter with built in check valve
- 3 drain holes
- Safety switch – standard
- Thermal overload protected motor
- Stainless steel motor shaft
- 6' power cord
- 20 ft. tubing (optional)



PART NO.	DESCRIPTION
SP-115-20	115V, 20', Safety Switch
SP-115-20T	115V, 20', Safety Switch with 20' Tubing
SP-230-20	230V, 20', Safety Switch
SP-230-20T	230V, 20', Safety Switch with 20' Tubing
SP-115-15	115V, 15', Safety Switch
SP-115-15T	115V, 15', Safety Switch with 20' Tubing
SP-230-15	230V, 15', Safety Switch
SP-230-15T	230V, 15', Safety Switch with 20' Tubing

PERFORMANCE (GPHr@head)

PART #	1"	5"	10"	15"	20"	SHUT OFF HEAD
SP-115-20	90	80	60	35	0	20'
SP-115-20T	90	80	60	35	0	20'
SP-230-20	90	80	60	35	0	20'
SP-230-20T	90	80	60	35	0	20'
SP-115-15	65	55	33	0	N/A	15'
SP-115-15T	65	55	33	0	N/A	15'
SP-230-15	65	55	33	0	N/A	15'
SP-230-15T	65	55	33	0	N/A	15'



SPECIFICATIONS

PART NO.	DESCRIPTION	HP	VOLTAGE	HZ	AMPS	WATTS	WEIGHT (lbs)	DIMENSION (W X D X H)"
SP-115-20	115V, 20' Safety Switch	1/30	115V	60	1.50	75	3.95	11 x 5 x 6.9
SP-115-20T	115V, 20' Safety Switch with 20' Tubing	1/30	115V	60	1.50	75	4.92	11 x 5 x 6.9
SP-230-20	230V, 20' Safety Switch	1/30	230V	60/50*	0.75/1.0	75/85	3.95	11 x 5 x 6.9
SP-230-20T	230V, 20' Safety Switch with 20' Tubing	1/30	230V	60/50*	0.75/1.0	75/85	4.92	11 x 5 x 6.9
SP-115-15	115V, 15' Safety Switch	1/50	115V	60	1	55	3.75	11 x 5 x 6.9
SP-115-15T	115V, 15' Safety Switch with 20' Tubing	1/50	115V	60	1	55	4.72	11 x 5 x 6.9
SP-230-15	230V, 15' Safety Switch	1/50	230V	60/50*	.05/0.75*	55/65	3.75	11 x 5 x 6.9
SP-230-15T	230V, 15' Safety Switch with 20' Tubing	1/50	230V	60/50*	.05/0.75*	55/65	4.72	11 x 5 x 6.9

* Shut-off head will be lower if operating under 50 hz.

CROSS REFERENCE

SMART PUMP NO.	DIVERSITECH	HARTELL	BECKETT	LITTLE GIANT
SP-115-20	CP-22	KT3X-1UL	CB201UL	VCMA-20ULS
SP-115-20T	CP-22T	KT3X-1ULT	CB201TUL	VCMA-20ULST
SP-230-20	CP-22-230	KT3X-2UL	CB202UL	VCMA-20ULS
SP-230-20T	CP-22-230T	KT3X-2ULT	CB202TUL	VCMA-20ULST
SP-115-15	CP-16	KT-15X-1UL	CB151UL	VCMA-15ULS
SP-115-15T	N/A	KT-15X-1ULT	CB151TUL	VCMA-15ULST
P-230-15	CP-16-230	KT-15X-2UL	N/A	N/A
SP-230-15T	N/A	KT-15X-2ULT	N/A	N/A

REPLACEMENT CHECK VALVE

FEATURES:

- Prevents water from traveling back into the pump and overflowing

PART NO.	DESCRIPTION
S-CV	REPLACEMENT CHECK VALVE



CLEAR VINYL TUBING

- Air conditioning and refrigeration condensate drains, condensate pump discharge lines and humidifier overflows
- Withstands a variety of conditions
- Bends easily without tube collapse and is crystal clear for full fluid visibility



PART NO.	DESCRIPTION
S-14	1/4 " CLEAR VINYL TUBING
S-38	3/8 " CLEAR VINYL TUBING
S-12	1/2 " CLEAR VINYL TUBING
S-58	5/8 " CLEAR VINYL TUBING
S-34	3/4 " CLEAR VINYL TUBING
S-78	7/8 " CLEAR VINYL TUBING
S-10	1 " CLEAR VINYL TUBING

TARZAN TUBE CLEAR VINYL TUBING



- Air conditioning and refrigeration condensate drains, condensate pump discharge lines and humidifier overflows
- Strong design which resists a tight curl, twist, or bend
- Improved performance in cold water climate

PART NO.	DESCRIPTION
S-14T	1/4 " CLEAR VINYL TUBING
S-38T	3/8 " CLEAR VINYL TUBING
S-12T	1/2 " CLEAR VINYL TUBING
S-58T	5/8 " CLEAR VINYL TUBING
S-34T	3/4 " CLEAR VINYL TUBING
S-78T	7/8 " CLEAR VINYL TUBING
S-10T	1 " CLEAR VINYL TUBING

MINI-SPLIT CONDENSATE DRAIN LINE

- Typical for mini-split installation
- 160 feet lengths with cut marks

PART NO.	DESCRIPTION
S-DL14	5/8 " MINI-SPLIT DRAIN LINE
SDL38	3/4 " MINI-SPLIT DRAIN LINE



S/E





SMART ELECTRIC COMPONENTS

Smart Electric offers several types of electrical replacement parts to help mechanics, maintenance personnel, contractors and electricians complete and repair HVAC systems. Relays, Capacitors, Contactors and many other electrical parts are found in many industries. Smart Electric is your one stop solution for all your electrical needs.

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QUALITY CONTROLLED BY AN AMERICAN COMPANY



MINI-SPLIT CAPACITORS

FLAME-RETARDANT PLASTIC CASE COMPOSITION.
SPADE TERMINALS. FILLED WITH EPOXY RESIN.

MAIN APPLICATIONS:

- 50/60Hz AC Motors
- Air Conditioner and Heat Pump Motors, Ventilation Motors, etc.

FEATURES:

- Self-recovery after overheating
- Small sizes fit most mini-splits, ptacs and portable units
- Stable capacitance
- Long life span

TECHNICAL DATA

Certification	UL810
Capacitance Range	1 μ F to 24 μ F
Capacitance Deviation	\pm 5%
Rated Voltage	250VAC, 450VAC
Rated Frequency	50/60 Hz
Operating Temperature	-40 F to 158 F (-40 C to 70 C)

CAPACITORS

PART NO.	MICROFARAD	VOLT 1	VOLT 2
S1x450	1 μ F	250	450
S1.5x450	1.5 μ F	250	450
S2x450	2 μ F	250	450
S2.5x450	2.5 μ F	250	450
S3x450	3 μ F	250	450
S4x450	4 μ F	250	450

PART NO.	MICROFARAD	VOLT 1	VOLT 2
S5x450	5 μ F	250	450
S6x450	6 μ F	250	450
S7x450	7 μ F	250	450
S8x450	8 μ F	250	450
S9x450	9 μ F	250	450

UL 810 c  US
LISTED

OVAL RUN CAPACITORS

FEATURES:

- Available round or oval
- The widest selection of ratings in the industry
- Perfect for general replacements, small dimensions available
- Non-PCB capacitors
- Medium: Polypropylene Film
- Electrode: Metalized Film
- Aluminum case, metal cap (in accordance with UL)
- Filling material: Plant oil (in accordance with UL)
- Expected Life 60,000 Hours
- Rated Voltage: 370 Vac or 440 Vac
- Max permit temperature: 85° C/185° F
- Terminal material, ignition time not to exceed 10 seconds
- UL 810, IEC 60252-1, EIA456-A



OVAL RUN

370V OVAL CAPACITOR

PART NO.	DESCRIPTION
SE337-0	3
SE437-0	4
SE537-0	5
SE637-0	6
SE7537-0	7.5
SE1037-0	10
SE12537-0	12.5
SE1537-0	15
SE17537-0	17.5
SE2037-0	20
SE2537-0	25
SE3037-0	30
SE3537-0	35
SE4037-0	40
SE4537-0	45
SE5037-0	50
SE5537-0	55
SE6037-0	60
SE7037-0	70
SE8037-0	80

440V OVAL CAPACITOR

PART NO.	DESCRIPTION
SE340-0	3
SE440-0	4
SE540-0	5
SE640-0	6
SE7540-0	7.5
SE1040-0	10
SE12540-0	12.5
SE1540-0	15
SE17540-0	17.5
SE2040-0	20
SE2540-0	25
SE3040-0	30
SE3540-0	35
SE4040-0	40
SE4540-0	45
SE5040-0	50
SE5540-0	55
SE6040-0	60
SE7040-0	70
SE8040-0	80

UL 810



DUAL SECTION MOTOR OVAL RUN CAPACITORS



UL 810
LISTED

FEATURES:

- Available round or oval
- The widest selection of ratings in the industry
- Perfect for general replacements
- Small dimensions available
- Non-PCB capacitors
- Medium: Polypropylene Film
- Electrode: Metalized Film
- Aluminum case, metal cap (in accordance with UL)
- Filling material: Plant oil (in accordance with UL)
- Expected Life 60,000 Hours
- Rated Voltage: 370 Vac or 440 Vac
- Max permit temperature: 85° C/185° F
- Terminal material, ignition time not to exceed 10 seconds
- UL 810, IEC 60252-1, EIA456-A

370V OVAL DUAL CAPACITORS

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
SE41-0	15/3	SE71-1	35/4
SE561-0	15/4	SE72-0	35/5
SE570-0	15/5	SE49-0	35/7.5
SE58-0	15/10	SE50-0	35/10
SE59-0	17.5/4	SE51-0	40/3
SE60-0	17.5/5	SE52-0	40/4
SE62-0	20/4	SE711-0	40/5
SE631-0	20/5	SE521-0	40/7.5
SE632-0	20/10	SE731-0	40/10
SE641-0	20/15	SE74-0	45/5
SE42-0	25/3	SE53-0	45/7.5
SE651-0	25/4	SE531-0	50/5
SE661-0	25/5	SE54-0	55/5
SE43-0	25/7.5	SE551-0	55/7.5
SE671-0	25/10	SE320-0	55/10
SE44-0	30/3	SE630-0	60/5
SE45-0	30/4	SE562-0	60/7.5
SE69-0	30/5	SE57-0	60/10
SE46-0	30/7.5	SE581-0	65/5
SE47-0	30/10	SE591-0	75/5
SE48-0	35/3	SE807-0	80/7.5

DUAL SECTION MOTOR OVAL RUN CAPACITORS

FEATURES:

- Non-PCB capacitors
- The widest selections of ratings
- Individually boxed
- Medium: Polypropylene Film
- Electrode: Metalized Film
- Aluminum case, metal cap (in accordance with UL)
- Filling material: Plant oil (in accordance with UL)
- Expected Life 60,000 Hours
- Rated Voltage: 370 Vac or 440 Vac
- Max permit temperature: 85° C/185° F
- Terminal material, ignition time not to exceed 10 seconds
- UL 810, IEC 60252-1, EIA456-A



440V OVAL DUAL CAPACITORS



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
SE70-0	15/4	SE81-0	40/10
SE712-0	20/5	SE82-0	45/5
SE722-0	20/15	SE83-0	45/7.5
SE73-0	25/5	SE97-0	50/5
SE742-0	30/5	SE84-0	55/5
SE75-0	35/3	SE85-0	55/10
SE76-0	35/5	SE105-0	70/10
SE77-0	35/7.5	SE115-0	80/5
SE78-0	35/10	SE119-0	80/7.5
SE79-0	40/5	SE120-0	80/10
SE80-0	40/7.5		

MOTOR RUN CAPACITORS

MOTOR ROUND RUN CAPACITORS



FEATURES:

- Non-PCB capacitors
- The widest selections of ratings
- Individually boxed
- Medium: Polypropylene Film
- Electrode: Metalized Film
- Aluminum case, metal cap (in accordance with UL)
- Filling material: Plant oil (in accordance with UL)
- Expected Life 60,000 Hours
- Rated Voltage: 370 Vac or 440 Vac
- Max permit temperature: 85° C/185° F
- Terminal material, ignition time not to exceed 10 seconds
- UL 810, IEC 60252-1, EIA456-A

UL 810  **LISTED**

370V ROUND CAPACITORS

PART NO.	DESCRIPTION	SMART NO.	DESCRIPTION
SE237	2	SE3037	30
SE337	3	SE3537	35
SE437	4	SE4037	40
SE537	5	SE4537	45
SE637	6	SE5037	50
SE7537	7.5	SE5537	55
SE1037	10	SE6037	60
SE12537	12.5	SE6537	65
SE1537	15	SE7037	70
SE17537	17.5	SE8037	80
SE2037	20	SE8537	85
SE2537	25		

440V ROUND CAPACITORS

PART NO.	DESCRIPTION	SMART #	DESCRIPTION
SE240	2	SE2540	25
SE340	3	SE3040	30
SE440	4	SE3540	35
SE540	5	SE4040	40
SE640	6	SE4540	45
SE7540	7.5	SE5040	50
SE1040	10	SE5540	55
SE12540	12.5	SE6040	60
SE1540	15	SE7040	70
SE17540	17.5	SE7540	75
SE2040	20	SE8040	80

MOTOR RUN CAPACITORS

DUAL SECTION MOTOR ROUND RUN CAPACITORS

FEATURES:

- Non-PCB capacitors
- The widest selections of ratings
- Individually boxed
- Medium: Polypropylene Film
- Electrode: Metalized Film
- Aluminum case, metal cap (in accordance with UL)
- Filling material: Plant oil (in accordance with UL)
- Expected Life 60,000 Hours
- Rated Voltage: 370 Vac or 440 Vac
- Max permit temperature: 85° C/185° F
- Terminal material, ignition time not to exceed 10 seconds
- UL 810, IEC 60252-1, EIA456-A



370V DUAL ROUND CAPACITOR

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
SE41	15/3	SE72	35/5
SE561	15/4	SE49	35/7.5
SE570	15/5	SE50	35/10
SE58	15/10	SE51	40/3
SE59	17.5/4	SE52	40/4
SE60	17.5/5	SE711	40/5
SE62	20/4	SE521	40/7.5
SE631	20/5	SE731	40/10
SE632	20/10	SE74	45/5
SE641	20/15	SE53	45/7.5
SE42	25/3	SE532	45/10
SE651	25/4	SE531	50/5
SE661	25/5	SE514	50/10
SE43	25/7.5	SE54	55/5
SE671	25/10	SE551	55/7.5
SE44	30/3	SE552	55/10
SE45	30/4	SE553	60/5
SE669	30/5	SE562	60/7.5
SE46	30/7.5	SE57	60/10
SE47	30/10	SE598	75/5
SE473	30/15	SE805	80/5
SE48	35/3	SE807	80/7.5
SE71	35/4		

440V DUAL ROUND CAPACITOR

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
SE86	25/5	SE97	50/5
SE87	25/7.5	SE98	50/7.5
SE88	30/5	SE99	55/5
SE89	30/7.5	SE100	55/7.5
SE891	35/4	SE101	60/5
SE90	35/5	SE102	60/7.5
SE91	35/7.5	SE103	60/10
SE92	40/4	SE5700	65/10
SE93	40/5	SE8055	80/5
SE94	40/7.5	SE115	80/5
SE95	45/5	SE119	80/7.5
SE96	45/7.5	SE120	80/10
SE892	45/10		



START CAPACITORS 110V

ELECTROLYTIC CAPACITORS FOR MOTOR STARTING APPLICATIONS

FEATURES:

- Bakelite case
- Non-polarized aluminum electrolytic
- Quick connect terminals
- Capacitance Range: 21 to 1280 μF
- Voltage Range: 110 to 330 VAC
- Operating Temperature: -40°C to $+65^{\circ}\text{C}$
- Operating Frequency: 50 to 60 Hz
- Power Factor: 10% max. (12% 30 μF)
- Compact Size for Easy mounting
- Meets EIA RS-463 Type 2



PART NO.	TYPE	MFD	VOLTAGE 110 V
72-86-110V	Plastic/Rnd.	72-86	110VAC
88-108-110V	Plastic/Rnd.	88-108	110VAC
108-130-110V	Plastic/Rnd.	108-130	110VAC
124-149-110V	Plastic/Rnd.	124-149	110VAC
130-156-110V	Plastic/Rnd.	130-156	110VAC
145-175-110V	Plastic/Rnd.	145-175	110VAC
161-193-110V	Plastic/Rnd.	161-193	110VAC
189-227-110V	Plastic/Rnd.	189-227	110VAC
216-259-110V	Plastic/Rnd.	216-259	110VAC
220-240-110V	Plastic/Rnd.	220-240	110VAC
233-280-110V	Plastic/Rnd.	233-280	110VAC
243-292-110V	Plastic/Rnd.	243-292	110VAC
270-324-110V	Plastic/Rnd.	270-324	110VAC
300-340-110V	Plastic/Rnd.	300-340	110VAC

PART NO.	TYPE	MFD	VOLTAGE 110 V
324-389-110V	Plastic/Rnd.	324-389	110VAC
340-408-110V	Plastic/Rnd.	340-408	110VAC
378-490-110V	Plastic/Rnd.	378-490	110VAC
400-480-110V	Plastic/Rnd.	400-480	110VAC
430-516-110V	Plastic/Rnd.	430-516	110VAC
460-552-110V	Plastic/Rnd.	460-552	110VAC
540-648-110V	Plastic/Rnd.	540-648	110VAC
590-708-110V	Plastic/Rnd.	590-708	110VAC
708-850-110V	Plastic/Rnd.	708-850	110VAC
815-970-110V	Plastic/Rnd.	815-970	110VAC
829-995-110V	Plastic/Rnd.	829-995	110VAC
850-1020-110V	Plastic/Rnd.	850-1020	110VAC
1000-1200-110V	Plastic/Rnd.	1000-1200	110VAC

START CAPACITORS 220V AND 330V

ELECTROLYTIC CAPACITORS FOR MOTOR
STARTING APPLICATIONS

FEATURES:

- Bakelite case
- Non-polarized aluminum electrolytic
- Quick connect terminals
- Capacitance Range: 21 to 1280 μ F
- Voltage Range: 110 to 330 VAC
- Operating Temperature: -40°C to $+65^{\circ}\text{C}$
- Operating Frequency: 50 to 60 Hz
- Power Factor: 10% max. (12% 30 μ F)
- Compact Size for Easy mounting
- Meets EIA RS-463 Type 2



PART NO.	TYPE	MFD	VOLTAGE 220V
21-25-220V	Plastic/Rnd.	21-25	220VAC
56-72-220V	Plastic/Rnd.	56-72	220VAC
72-86-220V	Plastic/Rnd.	72-86	220VAC
88-108-220V	Plastic/Rnd.	88-108	220VAC
108-130-220	Plastic/Rnd.	108-130	220VAC
124-149-220V	Plastic/Rnd.	124-149	220VAC
130-156-220V	Plastic/Rnd.	130-156	220VAC
145-175-220V	Plastic/Rnd.	145-175	220VAC
189-227-220V	Plastic/Rnd.	189-227	220VAC
216-259-220V	Plastic/Rnd.	216-259	220VAC
233-280-220V	Plastic/Rnd.	233-280A	220VAC
243-292-220V	Plastic/Rnd.	243-292	220VAC
270-324-220V	Plastic/Rnd.	270-324	220VAC

PART NO.	TYPE	MFD	VOLTAGE 330V
21-25-330V	Plastic/Rnd.	21-25B	330VAC
88-108-330V	Plastic/Rnd.	88-108B	330VAC
108-130-330V	Plastic/Rnd.	108-130B	330VAC
124-149-330V	Plastic/Rnd.	124-149B	330VAC
130-156-330V	Plastic/Rnd.	130-156B	330VAC
145-175-330V	Plastic/Rnd.	145-175B	330VAC
189-227-330V	Plastic/Rnd.	189-227B	330VAC
216-259-330V	Plastic/Rnd.	216-259B	330VAC
270-324-330V	Plastic/Rnd.	270-324B	330VAC

SMART ELECTRIC SUPER STARTER (Hard Start Kit): Reduces the amount of time for compressor to start. Protects compressor from potentially damaging start-up current, and protects internal components.



STARTING
TORQUE UP TO
300%

SES5 SUPER STARTER

INCREASES STARTING TORQUE UP TO 300

FEATURES:

- Contains relay and start capacitor for extra starting torque
- Installs in seconds across run capacitor terminal

APPLICATIONS:

- For all PSC A/C units from 4,000 thru 120,000 BTU's (1/2 thru 10 HP)
- Residential and commercial PSC A/C units and heat pumps
- Can be used on 120 thru 288 VAC units
- For low voltage and hard starting compressors
- Room A/C units



STARTING
TORQUE UP TO
500%

SES6 SUPER STARTER

INCREASES STARTING TORQUE UP TO 500%

FEATURES:

- Contains specially designed relay and large start capacitor for severe hard start problems
- Installs in seconds across run capacitor terminals

APPLICATIONS:

- For all PSC A/C units from 4,000 thru 120,000 BTU's (1/2 thru 10 HP)
- Can be used on 120 thru 288 starting
- Room A/C units
- Residential and commercial PSC A/C units and heat pumps
- For severe low voltage or hard starting compressors

SEI® US

PART NO.	VOLTAGE	INCREASES	REPLACES	
		TORQUE	MARS	SUPCO
SES5	115-230	300%	35701	SPP5
SES6	115-230	500%	35702	SPP6

SEC N'1 START RELAY

FEATURES:

- Installs quickly and easily by simply pushing on 3 female pin terminals
- Completely pre-wired

APPLICATIONS:

- All 3 electrical components relay, overload and start capacitor, on all capillary systems



HIGH STARTING TORQUE



PART NO.	HORSEPOWER	VOLTAGE
SEC810	1/12 THRU 1/5	115
SEC410	1/12 THRU 1/3	115

SMART ELECTRIC START RELAY (Refrigeration Hard Starts): principle of Hard Start for A/C systems, this component provides high starting torque to prevent compressor damage due to start-up current.

SMART ELECTRIC CONTACTORS: These compact universal designs are commonly used in HVAC&R systems. Available in 1, 2 and 3 pole configurations, from 20A to 90A, offering a wide range of replacement options for Air Conditioning and Refrigeration applications.

FIG. 1



FIG. 2



CONTACTOR SERIES

FEATURES:

- 1, 2 Poles
- 24V, 120V, 240V Coil Voltage
- 20 to 90 Full Load Amps
- 25 to 100 Resistive Amps
- Lug Terminals
- Protective Cover

**DESIGNED
FOR A/C, REFRIGERATION
& HEATING EQUIPMENT**

SINGLE POLE CONTACTORS

PART NO.	FULL LOAD AMPS	RESISTIVE AMPS	LOCKED ROTOR AMPS@240	FIG	COIL VOLTAGE
SE6968M	40	50	240	1	24
SE2727M	30	40	180	1	240
SE2728M	30	40	180	1	120
SE2729M	30	40	180	1	24

2 POLE CONTACTORS

SE2701M	20	25	120	2	120
SE2702M	20	25	120	2	240
SE2725M	25	30	150	2	120
SE2726M	25	30	150	2	24
SE2730M	30	40	180	2	24
SE2735M	30	40	180	2	120
SE2736M	30	40	180	2	240
SE2740M	40	50	240	2	24
SE2741M	40	50	240	2	120
SE2742M	40	50	240	2	240

CONTACTOR SERIES

FEATURES:

- 3 Poles
- 24V, 120V, 240V Coil Voltage
- 20 to 90 Full Load Amps
- 25 to 100 Resistive Amps
- Lug Terminals
- Protective Cover



FIG. 3

**DESIGNED
FOR A/C, REFRIGERATION
& HEATING EQUIPMENT**

3 POLE CONTACTORS



PART NO.	FULL LOAD AMPS	RESISTIVE AMPS	LOCKED ROTOR AMPS@240	FIG	COIL VOLTAGE
SE3701M	25	30	150	3	24
SE3702M	25	30	150	3	120
SE3703M	25	30	150	3	240
SE3704M	30	40	180	3	24
SE3705M	30	40	180	3	120
SE3706M	30	40	180	3	240
SE3707M	40	50	240	3	24
SE3708M	40	50	240	3	120
SE3709M	40	50	240	3	240
SE3710M	50	60	24	3	24
SE3711M	50	60	120	3	120
SE3712M	50	60	240	3	240
SE3713M	60	70	240	3	240

SAM8



DELAY ON MAKE TIMER

FEATURES:

- Delay on Make timer
- 18-240 VAC/VDC, 2 Wire compressor
- Staging startup delay timer
- Knob-adjustable from .03-10 minutes
- Works with anticipator thermostats

SPECIFICATIONS:

- Line Voltage: 18-240 VAC/VDC
- Line frequency: 50/60 Hz
- OUTPUT
Output Ratings: max: 1.5 amps
min: 40 mA
Inrush: 15 amps
- Time Delay: .03-10 mins. adjustable

SAB8



DELAY ON BREAK TIMER

FEATURES:

- Delay on Break timer
- 18-240 VAC/VDC, 2 Wire, Anti Short Cycle
- Lockout timer
- Knob-adjustable from .03-10 minutes
- Works with anticipator thermostats

SPECIFICATIONS:

- Line Voltage: 18-240 VAC/VDC
- Line frequency: 50/60 Hz
- OUTPUT
Output Ratings: max: 1.5 amps
min: 40 mA
Inrush: 15 amps
- Time Delay: .03-10 mins. adjustable

SMART ELECTRIC FAN RELAYS: Single pole single throw (SPST) and single pole double throw (SPDT) fan relays are ideal for switching solenoids, fan motors and other applications. These general purpose fan relays have universal mounting brackets. Available coil voltages are 24v, 110/120v, 208-240v.

GENERAL PURPOSE FAN RELAYS - SPST AND SPDT FAN RELAYS

REPLACE THE WR/ESSEX/RBM TYPE 84
(90-290 THRU 90-295) QUICK CONNECT.

FEATURES:

- Universal mounting bracket
- Replace 90-290 thru 90-295
- Individually boxed
- Dimensions: 2.38 x 1.63 x 1.50 in.
- UL recognized component
- SPST and SPDT configurations
- 1/4" Quick-Connect Terminals
- 24V, 110/120V, 208/240V Coil Voltage



SPST NO.	SPDT NO.	COIL VOLTAGE
SE90290	SE90293	24
SE90291	SE90294	110/120
SE90292	SE90295	208/240

CONTACT RATING

FULL LOAD	LOCKED ROTOR	RESISTIVE	VOLTAGE
12	60	18	120
8	48	18	240
7	42	18	277

CROSS REFERENCE

SMART ELECTRIC NO.	WR/RBM NO.	SMART ELECTRIC NO.	WR/RBM NO.
SE90290	90-290Q	SE90293	90-293Q
SE90291	90-291Q	SE90294	90-294Q
SE90292	90-292Q	SE90295	90-295Q



GENERAL PURPOSE FAN RELAYS HEAVY DUTY

USED ON HEATING AND AIR CONDITIONING EQUIPMENT TO PROVIDE SWITCHING OF HEAVIER LOADS WITH A COMPACT SIZE RELAY.

FEATURES:

- Universal mounting bracket
- Replaces WR/Essex/RBM type 184
- 1/4" Quick-Connect Terminals
- Individually boxed
- UL recognized component

**PROVIDES SWITCHING
OF HEAVIER LOADS
- COMPACT SIZE -**



HEAVY DUTY FAN RELAYS

SPST NO.	SPDT NO.	SPNO-SPNC NO.	COIL VOLTAGE
SE90360	SE90370	SE90380	24
SE90362	SE90372	SE90382	110/120
SE90364	SE90374	SE90384	208/240

CONTACT RATING

FULL LOAD	LOCKED ROTOR	RESISTIVE	VOLTAGE
12	60	18	120
8	48	18	240
7	42	18	277

CROSS REFERENCE

SMART ELECTRIC NO.	WR/RBM NO.	SMART ELECTRIC NO.	WR/RBM NO.
SE90360	90-360	SE90374	90-374
SE90362	90-362	SE90380	90-380
SE90364	90-364	SE90382	90-382
SE90370	90-370	SE90384	90-384
SE90372	90-372	-	-

SMART ELECTRIC GENERAL PURPOSE SWITCHING RELAYS:

Switching relays receive and control electrical signals. They are mainly used in the following applications: Air Conditioning, Refrigeration, Heating Appliances, Fan Controls and Vending Machines.

GENERAL PURPOSE SWITCHING RELAYS

2-POLE AIR CONDITIONING RELAYS



FEATURES:

- Open coil to ensure cooler operation
- Magnet is laminated for higher efficiency
- Quick-connect coil terminals
- Base support designed for easy replacement
- Terminal numbers and circuit diagrams are molded on the case for easy installation and servicing
- Individually boxed

SWITCHING RELAYS



PART NO.	COIL VOLTAGE	TERMINALS 1-2-3	TERMINALS 4-5-6
SE90340	24	Power	Power
SE90341	110/120	Power	Power
SE90342	208/240	Power	Power

CONTACT RATING

	POWER		PILOT	
	120V	208/240V	120	208/240V
Full Load Amps	12	6	-	-
Resisting Amps*	15	15	3	3
Locked Rotor Amps	60	35	-	-
Horsepower	3/4	3/4	1/10	1/10

*277 VAC

CROSS REFERENCE

SMART ELECTRIC NO.	WR/RBM NO.	HONEYWELL NO.
SE90340	90-340	R8222D1014
SE90341	90-341	R4222D1013
SE90342	90-342	R4222D1021

COIL DATA: 24-240 VAC @ 50/60 HZ; 21.5 VA MAX. INRUSH; 9.5 VA MAX. SEALED

SMART ELECTRIC POTENTIAL RELAYS: Provides additional starting torque to mechanical components such as motors or compressors. Potential relays protect start winding from overloading during a locked rotor condition by removing it from the circuit. Mainly used on residential and commercial air conditioning units, heat pumps, room air conditioners and refrigeration compressors.



POTENTIAL RELAYS

UNIVERSAL REPLACEMENT

FEATURES:

- Universal Replacement: replaces thousands of OEM potential relays
- Totally enclosed
- Universal break-off bracket
- 50/60 Hz
- Used with capacitor type motors
- Individually boxed



PART NO.	CONTINUOUS COIL VOLTAGE	PICK-UP		DROP-OUT MAX.
		MIN.	MAX.	
SE63	170	139	153	55
SE64	395	260	275	120
SE65	332	168	182	90
SE66	395	215	225	120
SE67	420	295	315	125
SE68	502	325	345	135
SE69	332	180	193	105

CROSS REFERENCE

SMART ELECTRIC NO.	JARD MODEL	MARS	STEVCO	3ARR3 G.E. GROUPS
SE63	JPR-63	19002	90-63	2J,2L,2M,5,7J,7K,7L,7M,7N,8L,8M,8N
SE64	JPR-64	19003	90-64	3A,3B,3AV,3AU,4A,4B,6A,6B,6AV,10A,10B,10AU,10AV
SE65	JPR-65	19004	90-65	3P,3R,3AP,5P,5R,5S,5T,22S
SE66	JPR-66	19005	90-66	3U,3V,3AT,6U,6V,6W
SE67	JPR-67	19006	90-67	3C,3D,3AA,4C,4D,4B,6C,6D,6AA,10C,10D,26A,26B,26C,26D
SE68	JPR-68	19007	90-68	3E,3F,3AB,3AC,4E,4F,4G,6E,6F,6G,10H,10AB,10AC,26E,26F,26G,26H,27E,27F,27G
SE69	JPR-69	19008	90-26	3S,3T,10S,10T,25S,25T,10AS

EMBRACO TYPE SHORT STARTER RELAY - 110V

FEATURES:

- Available from 1/8 - 1/2HP
- Sealed
- Voltage Relay
- 110/220V - 50/60HZ



PART NO.	DESCRIPTION
SREM 1/8	1/8HP
SREM 1/6	1/6HP
SREM 1/5	1/5HP

PART NO.	DESCRIPTION
SREM 1/4	1/4HP
SREM 1/3	1/3HP
SREM 1/2	1/2HP

DANFOSS TYPE SHORT STARTER RELAY - 110V

FEATURES:

- Available from 1/8 - 1/2HP
- Sealed
- Voltage Relay
- 110/220V - 50/60HZ



PART NO.	DESCRIPTION
SRDM 1/8	1/8HP
SRDM 1/6	1/6HP
SRDM 1/5	1/5HP

PART NO.	DESCRIPTION
SRDM 1/4	1/4HP
SRDM 1/3	1/3HP
SRDM 1/2	1/2HP

SMART ELECTRIC RELAYS: Replaces almost any current relay found in refrigerators, freezers, water cooler, pumps and vending machines.



CURRENT RELAYS

FEATURES:

- Covers replacement needs 1/8 HP 115V to 2 HP 230V
- Replace plug-on, bracket type, split-phase, and capacitor-start current relays

PART NO.	MAX. PICK-UP	MIN. PICK-UP	SIZE	VOLTAGE
SE1/8R	5.2	4.4	1/8 HP	115
SE1/6R	6.8	5.8	1/6 HP	115
SE1/5R	8.3	7.1	1/5 HP	115
SE1/4R	10.5	8.7	1/4 HP	115
SE1/3R	11.8	9.8	1/3 HP	115
SE1/2R	13.8	11.5	1/2 HP	115
SE3/4R	25.4	20.3	3/4 HP	115
SE1R	35	31	1 HP	230
SE1 1/2R	40	35	1 1/2 HP	230
SE2R	50	42	2 HP	230

SOLID STATE RELAYS - 110V

FEATURES

- 4 pin relay
- 5-20A
- 1/8 - 1/2HP
- For refrigeration compressors



PART NO.	DESCRIPTION
SEE 1/4-4	1/8HP
SEE 1/6-4	1/6HP
SEE 1/5-4	1/5HP
SEE 1/4-4	1/4HP
SEE 1/3-4	1/3HP
SEE 1/2-4	1/2HP

PTC OVERLOAD PROTECTOR - 110V

FEATURES

- 1/8 - 1/2HP
- Water proof and heat resistant
- High precision
- Steady performance



PART NO.	DESCRIPTION
SPTC1/8	1/8HP
SPTC1/6	1/6HP
SPTC1/5	1/5HP
SPTC1/4	1/4HP
SPTC1/3	1/3HP
SPTC1/2	1/2HP

RELAY AND OVERLOAD COMBINATION

FEATURES:

- cULs
- SC Series replaces all
- Relay and Overload combination from 1/12 HP thru 1/3 HP



SMART ELECTRIC NO.	HP	VOLTS	REPLACES
SR013	1/4, 1/3	115	Supco R041 MARS 21310 GEM IC13
SR015	1/2, 1/5	115	Supco R081 MARS 21305 GEM IC15

SCG SERIES RELAYS

APPLICATIONS: ONE SIZE FOR ALL COMPRESSORS FROM 1/12 HP THRU 1/2 HP

FEATURES:

- Can be used with or without a start capacitor
- Easy to install. Can be mounted on the fence of the compressor with quick "snap-on-bracket" or installed in any convenient location by using screws through the mounting holes



PART NO.	HORSEPOWER	VOLTAGE
SCG1	1/12 THRU 1/2	115
SCG2	1/12 THRU 1/2	230



3/4" MOTOR PROTECTORS

FEATURES:

- Each overload has six-inch leads and two wire nuts for simple installation
- Used in refrigeration, room air conditioners, heating, appliances and electric motors
- UL recognized component



PART NO.	SIZE	VOLTAGE
SE01/8	1/8 HP	115
SE01/6	1/6 HP	115
SE01/5	1/5 HP	115
SE01/4	1/4 HP	115
SE01/3	1/3 HP	115
SE01/2	1/2 HP	115
SE03/4	3/4 HP	115
SE01	1 HP	220
SE01 1/2	1 1/2 HP	220
SE02	2 HP	220



TRANSFORMERS FOOT MOUNT

FEATURES:

- Primary color coded list
- UL recognized component

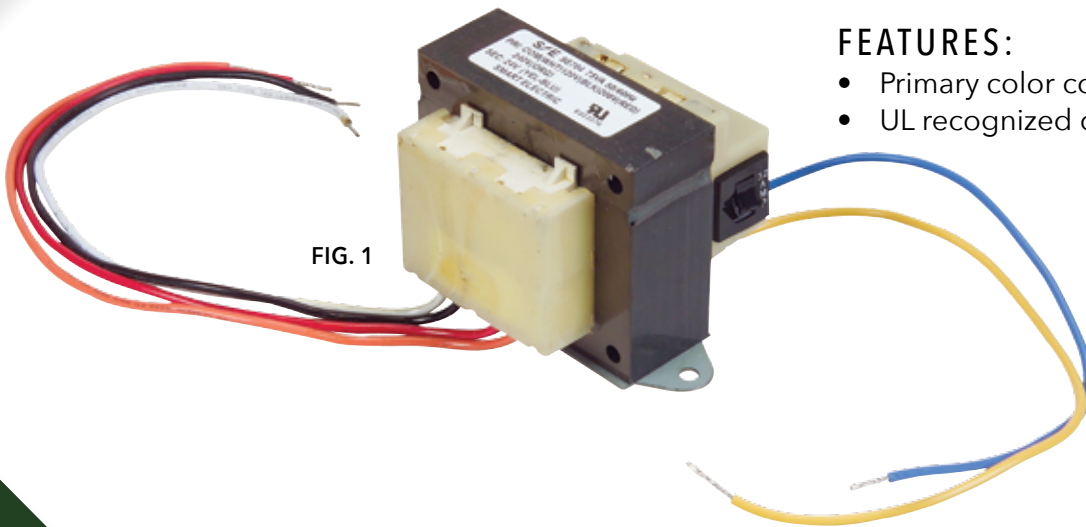


FIG. 1

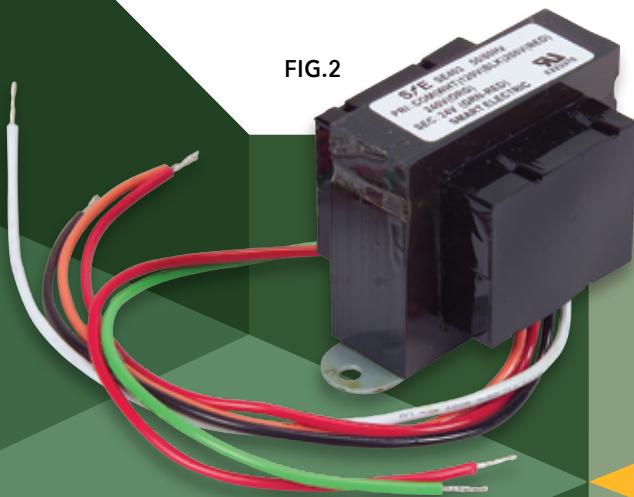


FIG. 2

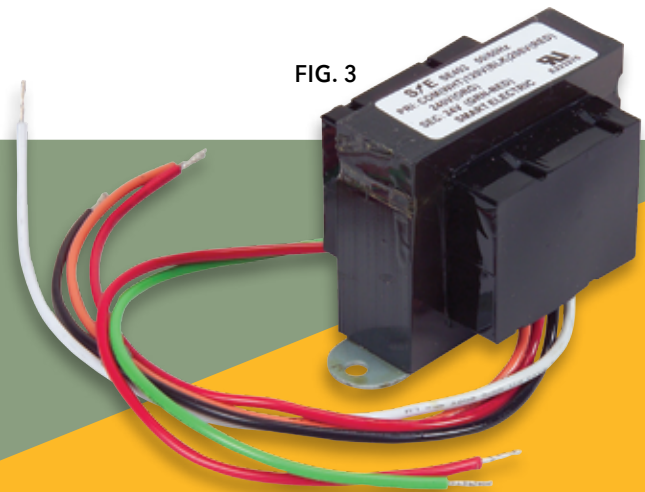


FIG. 3

PART NO.	PRIMARY VOLTAGE	VA RATING	SECONDARY VOLTAGE	FIG.
SE200	120V	20	24	Fig. 1
SE403	120/208/240V	40	24	Fig. 1
SE503	120/208/240V	50	24	Fig. 1
SE602	208/240V	60	24	Fig. 3
SE704	120/208/240V	75	24	Fig. 2
SE751*	120/208/240/480V	75	24	Fig. 2
SE754	480V	75	24	Fig. 3
SE1000	120/208/240/480V	100	24	Fig. 2

* FUSE PROTECTION

TRANSFORMERS MULTI-MOUNTED END BELL

FEATURES:

- Optional 3-way mounting
- 4 x 4 plates
- Closed construction

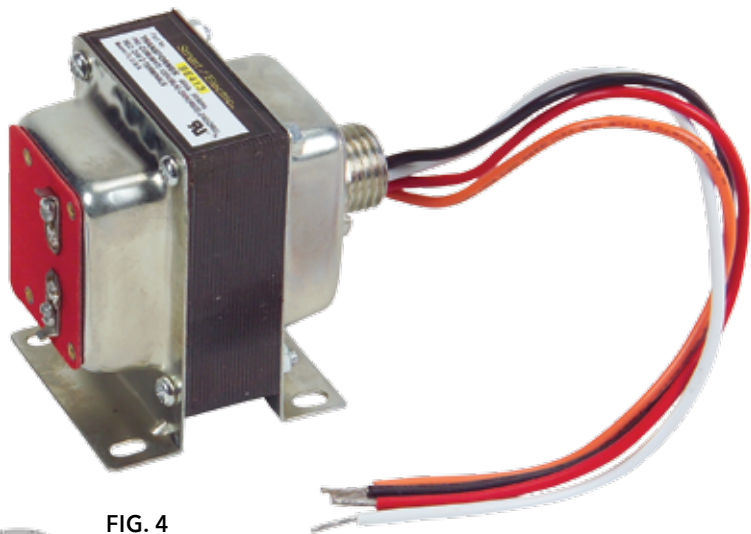


FIG. 4



PART NO.	PRIMARY VOLTAGE	VA RATING	SECONDARY VOLTAGE	FIG.
SE413	120/208/240V	40	24	Fig. 4
SE513	120/208/240V	50	24	Fig. 4
SE480	120/208/240V	48	24	Fig. 4

GENERAL PURPOSE THERMOSTAT

FEATURES:

- Open and rise
- Fan and limit applications



PART NO.	DESCRIPTION
SD135	135 - 15F
SD140	140 - 20F
SD145	145 - 20F
SD190	190 - 20F
SD240	240 - 40F



SD135

LIMIT THERMOSTAT

FEATURES:

- SPST
- Flush mount
- 1/4" quick disconnect terminals are provided
- Open on Rise
- Used in most laundry dryers



SLT140



PART NO.	DESCRIPTION
SLT140	140 - 40F
SLT160	160 - 40F
SLT180	180 - 40F
SLT250	250 - 40F

COIL KIT FOR ELECTRIC HEAT



FEATURES:

- Used in duct heaters
- Electric furnaces
- Air curtains
- Strip heaters

PART NO.	DESCRIPTION	FIG.
SRC601	5Kw @ 240V Fused Links & Hardware	1
SCT291	Open Temp. 291°F	2
SCT306	Open Temp. 306°F	2
SCT333	Open Temp. 333°F	2

SET SERIES

FEATURES:

- Defrost termination switches
- Auto reset

PART NO.	DESCRIPTION	REPLACES MARS
SET45	45 Degrees	33008
SET50	50 Degrees	33009
SET55	55 Degrees	33010
SET60	60 Degrees	33011
SET70	70 Degrees	33012



SET708



FEATURES:

- 120/240 VAC
- 75°F -40°F, 2 wire heater limit
- SPST
- Resistive Amps : 25
- Surface Mount
- Replaces: Bohn®, Larkin®, Chandler®
- Climate Control® 5708L & 4752C

SET9002



FEATURES:

- 120/240 VAC
- 55°F - 35°F, 3 wire defrost control
- SPDT
- Resistive Amps : 25
- Tube Mount
- Replaces: Russell® 103079002

SET709



FEATURES:

- 120/240 VAC
- 55°F - 35°F, 3 wire fan & defrost terminator
- SPDT
- Resistive Amps : 25
- Surface Mount
- Replaces: Bohn®, Larkin®, Chandler®
- Climate Control® 5709L & 4751C

SET9005



FEATURES:

- 120/240 VAC
- 45°F - 30°F, 3 wire defrost control
- SPDT
- Resistive Amps : 25
- Surface Mount
- Replaces: Russell® 103079005

SMART ELECTRIC SEQUENCERS:

These components are designed to delay motor rotation time either at start-up or after cut-off, allowing to take advantage of the cooling or heating state in the system. Classified as SPST or DPST, they are widely used in air conditioners and heat pump applications.

SSE34-4



SSE244B



SSE247



SEQUENCERS

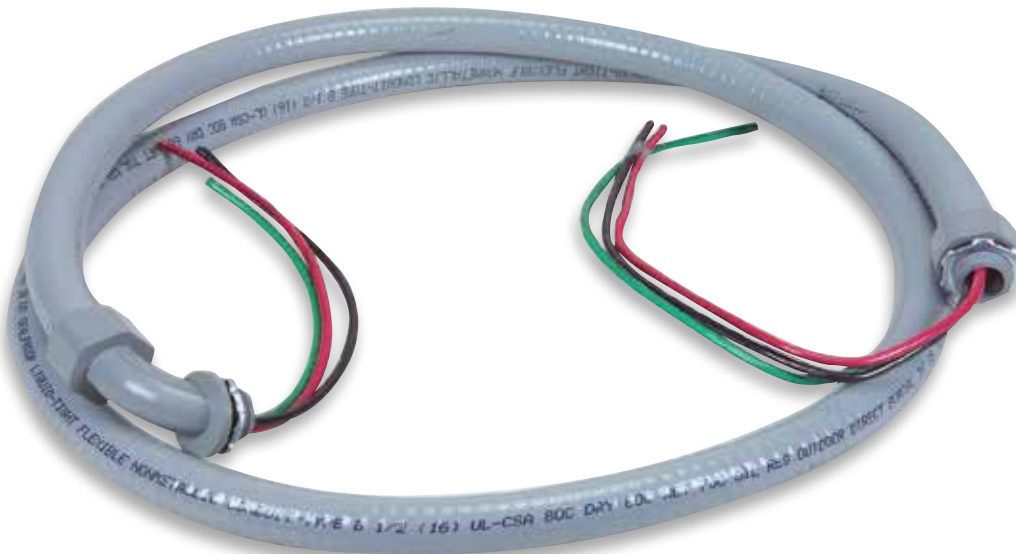
FEATURES:

- 24V c
- Full load rated auxiliary contacts
- ON and OFF delay
- Individually packed

PART NO.	SWITCH	ON	OFF
SSE232	SPST/DPST N.O.	1-24	45-75
SSE233	DPST N.O.	1-24	45-75
SSE241B	SPST N.O.	1-24	45-75
SSE244B	DPST N.O.	1-24	45-75
SSE245	DPST N.O.	30-75	1-40
SSE246	DPST N.O.	1-60	1-45
SSE247	SPDT N.O.	1-24	15-75
SSEA34	SPST N.O.	1-20	40-110
SSE34-2	SPST N.O.	30-90	1-30
SSE34-3	DPST N.O.	1-20	40-110
SSE34-4	DPST N.O.	30-90	1-30
SSE34-5	DPST/SPST N.O.	1-110	1-110
SSE34-6	DPST N.O.	1-110	1-110

AIR CONDITIONING WHIPS

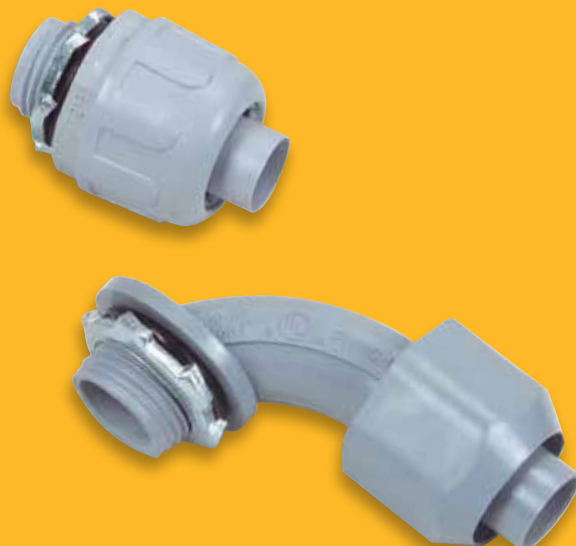
LIQUID-TIGHT CONDUIT, ONE 90° FITTING AND ONE STRAIGHT FITTING



PART NO.	SIZE	LENGTH	GAUGE
SWP 1/2X4	1/2"	4'	10
SWP 1/2X6	1/2"	6'	10
SWP 3/4X4	3/4"	4'	10
SWP 3/4X6	3/4"	6'	10

PVC FITTINGS NON-METALLIC

PART NO.	DESCRIPTION	PACK QTY
SFF 1/2-S	1/2" Straight Connector	25
SFF 1/2-90	1/2" 90° Connector	10
SFF 3/4-S	3/4" Straight Connector	25
SFF 3/4-90	3/4" 90° Connector	10



SDB30F



SMART ELECTRIC DISCONNECTS

FEATURES FOR SDB30F

- 30 Amp. fusible
- For use with aluminum or copper conductors
- Easy On easy OFF disconnect pullout
- Knockouts provided on the back, bottom and side for all applications
- Lift-up cover with lockable latch
- Powder painting finish on steel construction
- NEMA 3R rainproof enclosure for outdoor use
- UL listed
- Individually packed
- 7 1/2" H x 5 1/4" W x 3 3/8" D



SDB60F

FEATURES FOR SDB60F

- 60 Amp. fusible
- For use with copper conductors
- Easy On easy OFF disconnect pullout
- Knockouts provided on the bottom and side
- Lift-up cover with lockable latch
- Powder painting finish on steel construction
- NEMA 3R rainproof enclosure for outdoor use
- UL listed
- Individually packed
- 7 1/2" H x 5 1/4" W x 3 3/8" D

SMART ELECTRIC DISCONNECTS

FEATURES FOR SDB60NF

- 60 Amp. Non-fusible
- For use with aluminum or copper conductors
- Easy On easy OFF disconnect pullout
- Knockouts provided on the back, bottom and side for all applications
- Lift-up cover with lockable latch
- Powder painting finish on steel construction
- NEMA 3R rainproof enclosure for outdoor use
- UL listed
- Individually packed
- 7 1/2" H x 5 1/4" W x 2 3/4" D



SDB60NF



PART NO.	AMPS
SDB30F	30
SDB60F	60
SDB60NF	60



SCREW ON WIRE CONNECTORS

FEATURES:

- Color coded
- High-dielectric thermoplastic shell
- Individually boxed



PART NO.	DESCRIPTION	STANDARD PACK
S-001	71b #22 To #16 Awg-300v Max Gray Color	100
S-002	72b #22 To #16 Awg-300v Max Blue Color	100
S-003	73b #22 To #14 Awg-600v Max Orange Color	100
S-004	74b #18 To 10 Awg-600v Max Yellow Color	100
S-005	76b #18 To #10 Awg-600v Max Red Color	100



WINGED WIRE CONNECTORS

FEATURES:

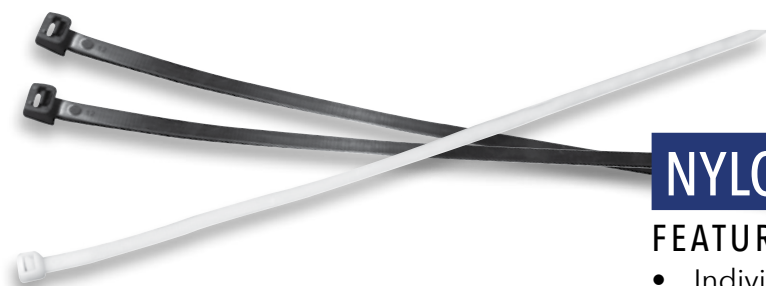
- Great twisting leverage
- Color coded

PART NO.	DESCRIPTION	STANDARD PACK
S-000	78b #14 To #8 Awg-600v Max Gray Color	50
S-006	84 #22 To #10 Awg-600v Max Yellow Color	100
S-007	86 #18 To #10 Awg-600v Max Red Color	100
S-008	88 #10 To #6 Awg-600v Max Blue Color	50



NYLON TIES ASSORTMENT PACK

PART NO.	DESCRIPTION	PACK QUANTITY
S7-711W	7", 11" White Assorted Ties	150
S7-711B	7", 11" Black Assorted Ties	150
S7-5811W	6", 8", 11" White Assorted Ties	450
S7-581B	6", 8", 11" Black Assorted Ties	450



NYLON WIRE TIES

FEATURES:

- Individually bagged



WHITE TIES

PART NO.	DESCRIPTION	STANDARD PACK
SWT04	4" Wire Ties	40
SWT04B	4" Wire Ties	100
SWT05	5" Wire Ties	35
SWT05B	5" Wire Ties	100
SWT07	7" Wire Ties	30
SWT07B	7" Wire Ties	100
SWT11	11" Wire Ties	15
SWT11B	11" Wire Ties	100
SWT15	15" Wire Ties	12
SWT15B	15" Wire Ties	100
SWTA1	4", 7", 11" Wire Ties	30

BLACK TIES

PART NO.	DESCRIPTION	STANDARD PACK
SWTB05	5" Wire Ties	35
SWTB05B	5" Wire Ties	100
SWTB07	7" Wire Ties	30
SWTB07B	7" Wire Ties	100
SWTB11	11" Wire Ties	15
SWTB11B	11" Wire Ties	100
SWTB15	15" Wire Ties	12
SWTB15B	15" Wire Ties	100
SWTB1A	4", 7", 11" Wire Ties	28

NYLON WIRE TIES

FEATURES:

- Mounting holes



WHITE TIES

PART NO.	DESCRIPTION	STANDARD PACK
SWTM05	5" Wire Ties	13
SWTM05B	5" Wire Ties	100
SWTM07	7" Wire Ties	11
SWTM07B	7" Wire Ties	100

BLACK TIES

PART NO.	DESCRIPTION	STANDARD PACK
SWTMB05	5" Wire Ties	12
SWTMB05B	5" Wire Ties	100
SWTMB07	7" Wire Ties	10
SWTMB07B	7" Wire Ties	100

SE



REFRIGERATION PRODUCTS

Smart Electric products offer reliable and longer lasting solutions for refrigeration. We know how important it is to keep systems clean and running at its full efficiency for trouble-free operation. All of our products are designed and manufactured to meet the requirements of high-pressure refrigerants while providing maximum protection from contaminants.

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SMART ELECTRIC PRESSURE SWITCHES: Designed to continuously monitor Low and High pressures of a system mainly for compressor protection and safety. The system will cut off when pressure exceeds the pressure range.



PRESSURE SWITCHES

FEATURES:

- Fixed settings pressure controls
- 24v-240v
- Contacts rated at 6 amps
- High pressure cut out - open on pressure rise, automatic reset, normally closed
- Low pressure cut out - open on pressure drop, automatic reset, normally open
- Available for R-410 pressure ratings

PART NO.	OPEN	CLOSE	PROOF PRESSURE	BURST PRESSURE
SLP05-20	5 psi	20 psi	250	3500
SLP10-25	10 psi	25 psi	250	3500
SLP25-50	25 psi	50 psi	250	3500
SLP25-80	25 psi	80 psi	500	3500
SLP40-80	40 psi	80 psi	500	3500
SLP90-120	90 psi	120psi	500	3500
SHP200-150	200 psi	150 psi	500	3500
SHP250-150	250 psi	150 psi	500	3500
SHP300-200	300 psi	200 psi	600	3500
SHP350-250	350 psi	250 psi	600	3500
SHP400-300	400 psi	300 psi	600	3500
SHP400-200	400 psi	200 psi	600	3500
SHP450-250	450 psi	250 psi	600	3500
SHP610-460	610 psi	460 psi	600	3500

FAN CYCLING

CROSS REFERENCE

PART NO.	OPENING PRESSURE	RESET PRESSURE	SWITCH ACTION (OPEN ON PRESSURE)	ACTION	REPLACES MARS
SPF125	125	265	Fall	Fan Cycling	33340
SPF150	150	225	Fall	Fan Cycling	-
SPF170	170	250	Fall	Fan Cycling	-
SPF210	210	275	Fall	Fan Cycling	33341
HIGH PRESSURE CONTROL/MANUAL RESET					
SPM410	410		Manual	Manual	33350

SMART STRAINERS

FEATURES:

- Outlet dimensions of 0.093 to 3/8"
- Inlet dimensions of 1/4" to 3/8"
- Equipped with S.S. mesh screen
- Available with 1, 2, 3 and 4 outlets

PART NO.	INLET	OUTLET	NO. OF OUTLETS	LENGTH
SS862	3/8"	0.146 in	2	3"
SS962	3/8"	0.146 in	3	4"
SS963	3/8"	0.146 in	4	5"

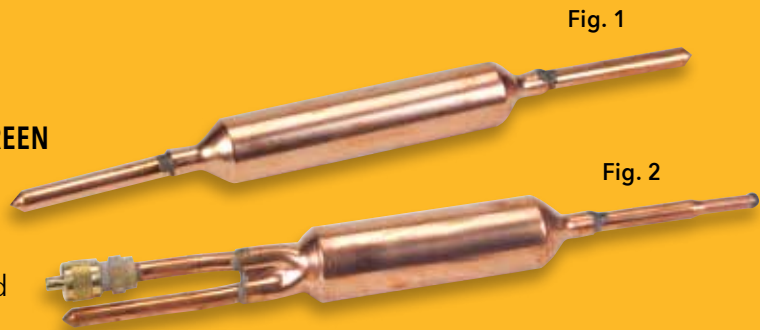


SPUN COPPER DRIERS

DESIGNED TO REMOVE MOISTURE AND ACID FROM REFRIGERANT. ALSO CONTAINS S.S. SCREEN TO TRAP FOREIGN MATTER IN REFRIGERANT.

FEATURES:

- SE804 copper tube may be cut, swaged or bent to accommodate application
- Compatible with most new blend refrigerants
- Use XH-9 desiccant



PART NO.	SWEAT CONN.	DESICCANT GRAMS	DIAMETER	LENGTH	FIG.
SE15	1/4" x 1/4"	15	3/4"	9 1/4"	1
SE25	1/4" x 1/4"	25	1"	9"	1
SE30	1/4" x 1/4"	30	1"	9 1/2"	1

PART NO.	SWEAT CONN.	DESICCANT GRAMS	RECOMMENDED TONNAGE				FIG.
			R12		R22		
			75°F	125°F	75°F	125°F	
SE804	1/4" x 1/4"	10	1/2	1/2	1/2	1/3	1
SEX5	1/4" x 1/4"	10	1	1	1 1/2	3/4	2

INTRODUCING SMART ELECTRIC BALL VALVES

BALL VALVES

FEATURES:

- One quarter turn to open or close
- Easy flow and no pressure drop
- Double "O" ring for greater seating surface
- Forged brass body
- Temperature range -40°F to 250°F



PART NO.	CONNECTION (ODS)	BALL PORT DIAMETER	WEIGHT (LB)
SBV08	1/2	0.5	0.7
SBV10	5/8	0.5	0.7
SBV12	3/4	0.75	1
SBV16	7/8	0.75	1
SBV18	1 1/8	1	2.2
SBV20	1 3/8	1.5	3.8

SK LIQUID LINE FILTER DRIER

FEATURES:

- Solid core
- Prevents refrigeration system from being polluted
- Epoxy paint
- High moisture and acid removal capability
- Copper ends



PART NO.	MAXIMUM WORKING PRESSURE	LIQUID FLOW CAPACITY (TONS)							CONNECTIONS					
		R134A	R12	R22	R410	R407C	R404A		ODF (IN.)	SAE (IN.)	A (IN.)	B (IN.)	C (IN.)	D (IN.)
SK-052	600	2.1	1.7	2.2	2.2	2.2	1.5	1.5		1/4	4.81		3.00	2.64
SK-052S	600	3.6	3.0	4.0	4.0	4.0	2.6	2.6	1/4		4.44	3.69	3.00	2.64
SK-053	600	4.6	3.8	5.0	5.0	5.0	3.3	3.3		3/8	5.13		3.00	2.64
SK-053S	600	6.7	5.5	7.3	7.3	7.3	4.8	4.7	3/8		4.50	3.63	3.00	2.64
SK-082	600	2.1	1.7	2.2	2.2	2.2	1.5	1.5		1/4	5.63		3.80	2.64
SK-082S	600	3.6	3.0	4.0	4.0	4.0	2.6	2.6	1/4		5.25	4.50	3.80	2.64
SK-083	600	5.5	4.5	5.9	5.9	5.9	4.0	3.9		3/8	5.94		3.80	2.64
SK-083S	600	7.4	6.1	8.1	8.1	8.1	5.4	5.3	3/8		5.31	4.44	3.80	2.64
SK-084	600	9.2	7.6	10.0	10.0	10.0	6.7	6.5		1/2	6.19		3.80	2.64
SK-084S	600	10.4	8.5	11.2	11.2	11.2	7.5	7.3	1/2		5.38	4.38	3.80	2.64
SK-163	600	6.1	5.0	6.6	6.6	6.6	4.4	4.3		3/8	6.88		4.75	2.64
SK-163S	600	8.2	6.8	9.0	9.0	9.0	6.0	5.8	3/8		6.25	5.25	4.75	2.64
SK-164	600	12.2	10.0	13.2	13.2	13.2	8.8	8.6		1/2	7.06		4.75	2.64
SK-164S	600	14.6	12.0	15.9	15.9	15.9	10.5	10.3	1/2		6.31	5.19	4.75	2.64
SK-165	600	18.3	15.0	19.9	19.9	19.9	13.2	12.9		5/8	7.50		4.75	2.64
SK-165S	600	18.3	15.0	19.9	19.9	19.9	13.2	12.9	5/8		6.56	5.19	4.75	2.64
SK-167S	500	20.1	16.5	21.8	21.8	21.8	14.5	14.2	7/8		7.13	5.50	4.75	2.64
SK-304	500	14.1	11.6	15.4	-	15.4	10.2	10.0		1/2	9.88		7.50	3.15
SK-304S	500	15.4	12.7	16.8	-	16.8	11.1	10.9	1/2		9.06	8.06	7.50	3.15
SK-305	500	19.2	15.8	20.9	-	20.9	13.9	13.6		5/8	10.31		7.50	3.15
SK-305S	500	20.7	17.0	22.5	-	22.5	14.9	14.6	5/8		9.31	8.06	7.50	3.15
SK-307S	500	28.0	23.0	30.4	-	30.4	20.2	19.8	7/8		9.88	8.38	7.50	3.15
SK-415	500	23.1	19.0	25.2	-	25.2	16.7	16.4		5/8	10.44		7.25	3.66
SK-415S	500	23.1	19.0	25.2	-	25.2	16.7	16.4	5/8		9.44	8.19	7.25	3.66
SK-417S	500	28.6	23.5	31.1	-	31.1	20.6	20.2	7/8		9.88	8.19	7.25	3.66
SK-419S	500	31.7	26.1	34.5	-	34.4	22.9	22.4	1 1/8		10.38	8.56	7.25	3.66



SBD BI-DIRECTIONAL HEAT PUMP FILTER DRIER

FEATURES:

- Design for heat pump or reverse cycle applications
- Includes an internal check valve which allows flow and filtration either way
- Epoxy powder paint
- Effectively removes moisture, acid and solid contaminants
- Copper ends



PART NO.	UNIT SIZE	CONNECTION SIZE & TYPE	FLOW CAPACITY TONS @ 1 PSIG ΔP		
			R-134A	R-22	R-404A/R-507
SBD-083	8	3/8 SAE	4.2	4.5	2.9
SBD-083S	8	3/8 ODF	4.7	5.1	3.3
SBD-084	8	1/2 SAE	5.9	6.4	4.2
SBD-084S	8	1/2 ODF	6.2	6.7	4.4
SBD-085	8	5/8 SAE	7.2	7.8	5.1
SBD-085S	8	5/8 ODF	7.5	8.1	5.3
SBD-163	16	3/8 SAE	4.2	4.6	3.0
SBD-163S	16	3/8 ODF	4.8	5.2	3.4
SBD-164	16	1/2 SAE	7.1	7.7	5.0
SBD-164S	16	1/2 ODF	7.5	8.1	5.3
SBD-165	16	5/8 SAE	7.7	8.3	5.4
SBD-165S	16	5/8 ODF	8.0	8.7	5.7



SUCTION FILTER DRIERS

FEATURES:

- Designed for A/C System Clean Up
- Powder Paint Finish
- Porous Core
- Low Pressure Drop
- UL listed
- High Acid Capacity
- Copper ends

PART NO.	SIZE CU, IN.	CONNECTIONS	CARTON SIZE
SSK-1655SV	16	5/8	25
SSK-1665SV	16	3/4	25
SSK-1675SV	16	7/8	25



DRIER FILTER SHELL

FEATURES:

- Designed for A/C system cleanup
- Powder paint finish
- Porous core
- Low pressure drop
- UL listed
- High acid capacity



FILTER DRIER CORES AND FILTERS

FEATURES:

- Water capacities to suit specific system conditions
- Exceptional acid capacities for normal system
- Protection, or to effectively clean-up following compressor burnout
- Activated carbon blend for soluble contaminant



PART NO.	RECOMMENDED REFRIGENT TYPE	FUNCTION	WATER CAPACITY DROPS OF WATER													
			R-12		R-134A		R-22		R-407C		R-404A/R-507		R-410A		R-502	
S48	CFC, HCFC	HIGH ACID REMOVAL	810	453	415	340	363	254	225	95	457	343	210	86	388	225
SH48	CFC, HCFC	HIGH ACID & WATER REMOVAL	1020	688	676	538	597	436	445	285	721	535	380	226	643	475
SHH48	CFC, HCFC, HFC	UNIVERSAL REPLACEMENT	1579	1319	1272	1168	1181	1072	1033	786	1319	1241	976	707	1332	1150
SH100	CFC, HCFC	HIGH ACID & WATER REMOVAL	1958	1225	1112	834	962	673	726	418	1199	839	672	364	1109	758
SHH100	CFC, HCFC, HFC	UNIVERSAL REPLACEMENT	3204	2740	2769	2550	2574	2345	2182	1682	2868	2710	-	-	2787	2437

SUCTION ACCUMULATORS

FEATURES:

- Prevents compressor damage caused by liquid slugging of refrigerant and oil
- Positive oil return at all rated conditions
- Designed for operation as low as -40C evaporator temperature
- Low pressure drop
- Acts as a suction muffler
- Suction gas temperature as low as -12C at the accumulator



PART NO.	CONNECTIONS ODF SOLDER : INCHES	DIAMETER: IN	LENGTH: IN
SAL08	1/2"	18.74	8.00
SAL10	5/8"	18.74	10.00
SAL12	3/4"	5.00	12.00
SAL16	7/8"	5.00	13.00
SAL18	1 1/8"	5.00	17.00
SAL19	1 3/8"	5.98	14.00
SAL20	1 5/8"	5.98	20.00



OIL SEPERATORS

FEATURES:

- Hermetic construction
- Copper ODF connections
- Accurate and percise system (float, valve, & needle)
- Stainless steel construction
- Epoxy paint
- Complies with UL standards



Part NO.	Connections: ODF	Height: cm	Dimensions: cm		NOMINAL CAPACITY UNDER THE APPOINTED TEM- PERATURE: (KW)					VOLUME LIT.
			Diameter: cm	R22 / R407C		R-134a		R-404A / R 507		
				-40"f	+40"f	-40"f	+40"f	-40"f	+40"f	
SOIL04	1/2"	25.9	10.2	5.28	7.03	3.52	6.15	5.28	7.03	2.1
SOIL05	5/8"	36	10.2	15.83	19.34	11.43	15.83	16.71	20.22	2.92
SOIL07	7/8"	44.9	10.2	24.62	28.14	16.71	22.86	26.38	29.89	3.64
SOIL09	1 1/8"	53.4	10.2	31.65	38.69	22.86	29.89	33.41	40.45	4.33
SOIL11	1 3/8"	53.4	10.2	40.45	49.24	28.14	39.86	42.2	51	4.33
SOIL13	1 5/8"	47.4	15.2	56.27	63.31	41.32	56.27	70.34	84.41	8.64
SOIL17	2 1/8"	47.4	15.2	87.93	105.51	63.31	88.8	105.51	123.1	8.64



SIGHT GLASSES

FEATURES:

- Moisture indication for Refrigerant R22, R404A, R407C, R 410A, R502 or R507
- Shows refrigerant status which is useful for correct diagnostics of the system
- Large full view sight glass



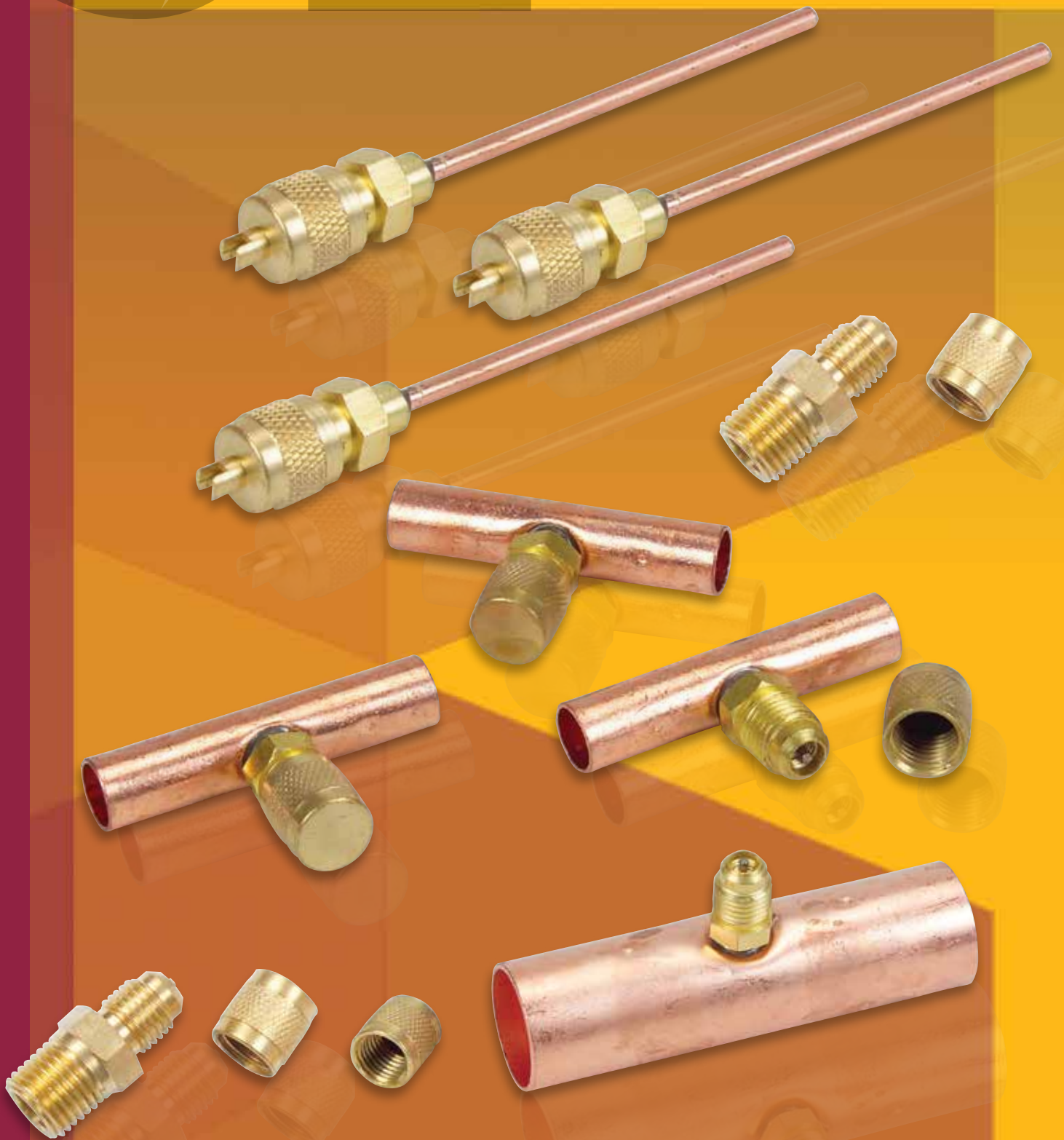
SWEAT CONNECTION

PART NO.	SIZE	LENGTH
SEG04S-UL	1/4"	4"
SEG06S-UL	3/8"	4-5/8"
SEG08S-UL	1/2"	5-3/4"
SEG10S-UL	5/8"	5-3/4"
SEG12S-UL	3/4"	5-3/4"
SEG14S-UL	7/8"	6-3/4"

FLARE CONNECTION

PART NO.	SIZE	LENGTH
SEG04F-UL	1/4"	2 3/4"
SEG06F-UL	3/8"	3"
SEG08F-UL	1/2"	3 1/4"

SE





ACCESS FITTINGS & VALVES

Our access fittings and valves are designed to offer convenient and safe solutions for the addition of service ports to any open or closed refrigeration or air conditioning systems.

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SMART ELECTRIC VIBRATION ABSORBERS:

Designed for installation in the Suction line & Discharge line of the system to lower compressor vibration through the system and to absorb the sound caused by the vibration.

VIBRATION ABSORBERS

FEATURES:

- Proven design
- Stainless steel hose & braid
- Copper tube ends
- Available from 1/2" - 2 1/8"



VIBRATION ELIMINATORS

COMPATIBLE WITH THE FOLLOWING REFRIGERANTS					
R12	R22	R23	R125	R134A	R401
R401B	R402A	R402B	R404A	R407A	R407B
R407C	R408A	R409A	R410A	R410B	R412A
R502	R507	R508			

PART NO.	DESCRIPTION
SEV5614	3/8"OD
SEV3838	1/2"OD
SEV1212	5/8"OD
SEV1258	3/4"OD
SEV3434	7/8"OD
SEV1010	1 1/8"OD
SEV5454	1 3/8"OD
SEV6464	1 5/8"OD
SEV2020	2 1/8"OD

LINE TAP VALVE

FEATURES:

- Provides quick access for refrigerant pressures to be measured
- Line tap valve retracting needle provides a leak tight seal
- System can be serviced with any charging hose
- Individually boxed

PART NO.	O.D. SIZE TUBING	PACK QTY.
S1	1/4", 5/16", 3/8"	36
S2	1/2", 5/8"	36



LINE TAP VALVE

FEATURES:

- Individually boxed
- Includes hex key

PART NO.	TUBING SIZE	PACK QTY.
STV1	1/4", 5/16", 3/8"	1



SQC-4



SV-34



SV2-456



ACCESS FITTINGS

ALL OUR ACCESS FITTINGS COME STANDARD WITH 1/4" SAE MALE FLARE CONNECTIONS, BUILT-IN VALVE CORES & BRASS CAPS.

FEATURES:

- May be installed in any position high or low side

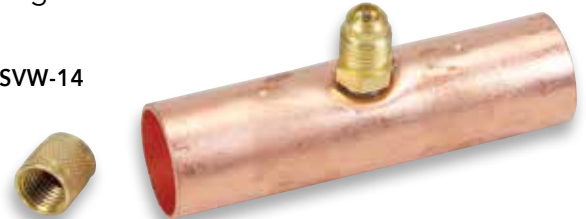
SVX



SQC-4R



SVW-14



SVT-6



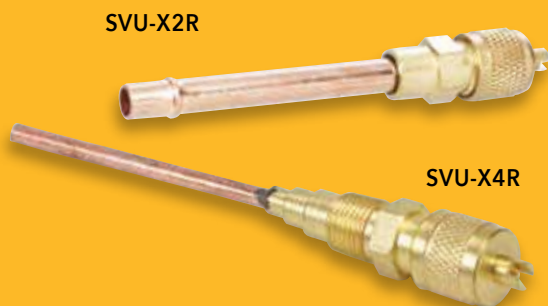
SVU-4



PART NO.	MODEL	SIZE	WEIGHT	PACKAGE QTY.
SV2-456	Step down Solder	1/8" I.D. hole, 3/16", 1/4", 5/16" steps	0.045	5
SV2-456R	Step down Solder	1/8" I.D. hole, 3/16", 1/4", 5/16" steps	0.043	5
SV3-346	Step down Solder	3/16" O.D. tube or 1/4" and 3/8" solder	0.045	5
SV3-346R	Step down Solder	3/16" O.D. tube or 1/4" and 3/8" solder	0.042	5
SV-34	Straight Solder	3/16" O.D. tube or 1/4" solder	0.040	5
SV-34R	Straight Solder	3/16" O.D. tube or 1/4" solder w/core remover	0.039	5
SV-46	Straight Solder	1/4" O.D. tube or 3/8" solder	0.045	5
SV-46R	Straight Solder	1/4" O.D. tube or 3/8" solder w/core remover	0.043	5
SVU-24	Half Union	1/8" M.P.T. or 1/4" O.D. solder	0.046	5
SVU-24R	Half Union	1/8" M.P.T. or 1/4" O.D. solder	0.044	5
SVU-45	Half Union	1/4" M.P.T. or 5/16" O.D. solder	0.072	5
SVU-45R	Half Union	1/4" M.P.T. or 5/16" O.D. solder	0.070	5
SVU-4	Union w/Flare Nut	1/4" male flare x 1/4" access	0.089	4
SVU-4R	Union w/Flare Nut	1/4" male flare x 1/4" access w/core remover	0.089	4
SVU-44	Union	1/4" male flare x 1/4" female flare	0.084	4
SVU-44R	Union	1/4" male flare x 1/4" female flare w/core remover	0.083	4
SVX-2		1/8" O.D. x 2" copper tube extension	0.045	5
SVX-2R		1/8" O.D. x 2" copper tube extension	0.045	5
SVX-3		3/16" O.D. x 2" copper tube extension	0.048	5
SVX-3R	Straight Solder	3/16" O.D. x 2" copper tube extension	0.048	5
SVX-4		1/4" O.D. x 2" copper tube extension	0.057	5
SQC4	Cap	1/4"		
SQC4R	Cap with Core Remover	1/4"		



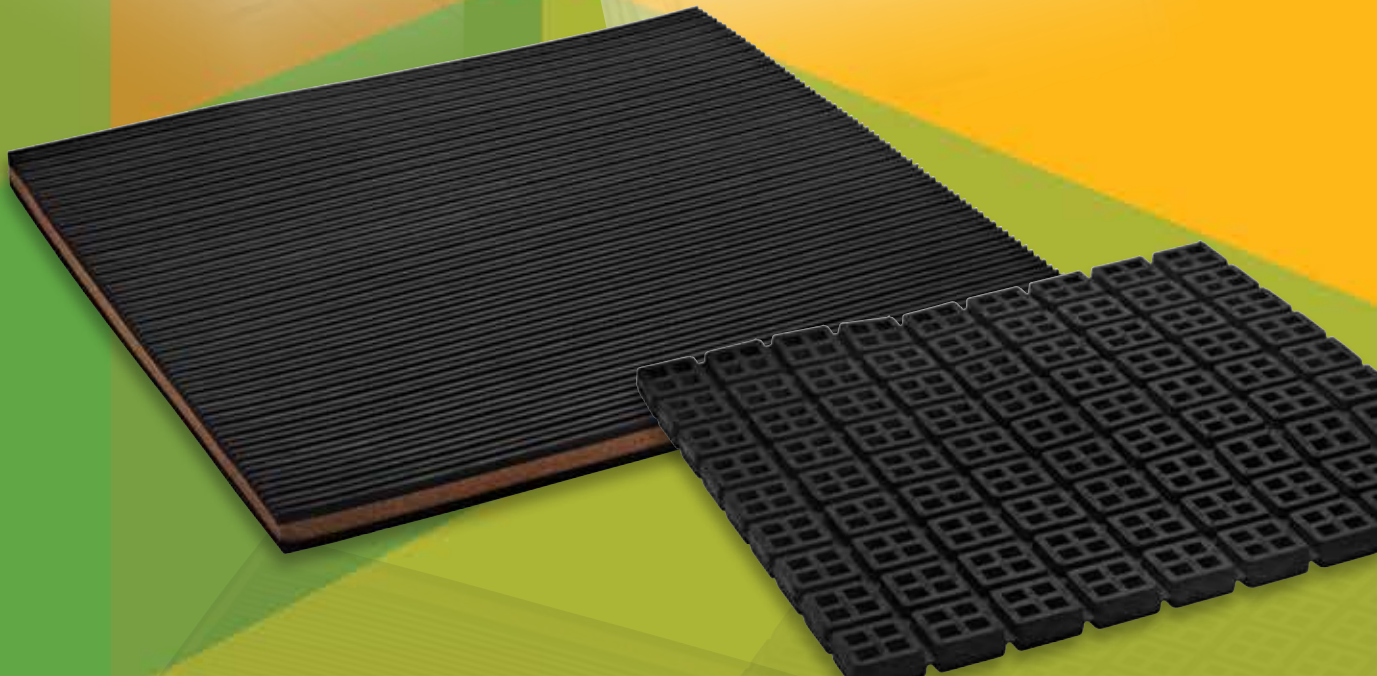
PART NO.	MODEL	SIZE	WEIGHT	PACKAGE QTY.
SVX-4R	end tube and	1/4" O.D. x 2" copper tube extension	0.057	5
SVX-5		5/16" O.D. x 2" copper tube extension	0.069	5
SVX-5R		5/16" O.D. x 2" copper tube extension	0.069	5
SVX-6		3/8" O.D. x 2" copper tube extension	0.080	5
SVX-6R		3/8" O.D. x 2" copper tube extension	0.080	5
SVT-4	Copper Solder Tee	1/4" O.D. x tube x 1/4" male flare	0.065	3
SVT-4R		access on branch	0.065	3
SVT-5	Copper Solder Tee	5/16" O.D. x tube x 1/4" male flare	0.065	3
SVT-5R		access on branch	0.065	3
SVT-6	Copper Solder Tee	3/8" O.D. x tube x 1/4" male flare	0.073	3
SVT-6R		access on branch	0.073	3
SVW-8	Copper Solder Tee	1/2" O.D. x tube x 1/4" male flare	0.088	2
SVW-8R		access on branch	0.088	1
SVW-10	Copper Solder Tee	5/8" O.D. x tube x 1/4" male flare	0.094	2
SVW-10R		access on branch	0.094	1
SVW-12	Copper Solder Tee	3/4" O.D. x tube x 1/4" male flare	0.101	2
SVW-12R		access on branch	0.101	1
SVW-14	Copper Solder Tee	7/8" O.D. x tube x 1/4" male flare	0.131	1
SVW-14R		access on branch	0.131	1
SVCR	Valve Core Tool	valve core remover	-	1
ADAPTER 410	R410 Fitting Adapter	1/2" - 20 UNF FX x 1/4" SAEM fitting	-	1



SVUX SERIES ACCESS FITTINGS PROVIDE COPPER TUBING WITH 1/8" PIPE THREAD BELOW THE HEX. OTHER VARIOUS TUBE SIZES ARE AVAILABLE TO PROVIDE PROPER FITTING. A CORE REMOVER CAP IS INCLUDED IN THE SVUX SERIES.

PART NO.	SIZE	PACKAGE QTY
SVU-345R	1/8" MPT - 3/16", 1/4", 5/16" steps 1/8" hole core tool	5
SVUX-2R	1/8" MPT - 3/16", 1/4", 5/16" steps 1/8" x 2" copper ext.	5
SVUX-3R	1/8" MPT - 1/4", 5/16" steps 3/16" x 2" copper ext.	5
SVUX-4R	1/8" MPT - 5/16" steps 1/4" x 2" copper ext. - core tools	5

SE



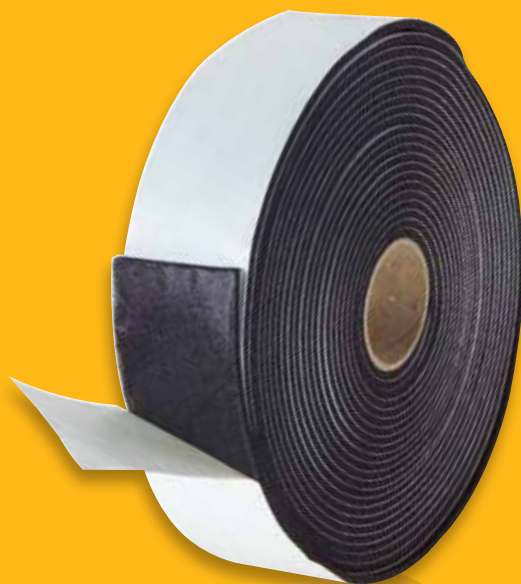


GENERAL INDUSTRY PRODUCTS

General industry products are used extensively in the HVAC and construction industries. We provide thermostat guards to prevent continuous tampering of temperature control centers. Iso-cube and rubber anti-vibration pads to reduce vibration and noise emanating from refrigeration and air conditioning equipment. Foam Insulation tape to create tight seals against air and weather conditions.

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ISO-CUBE PADS	81
FOAM INSULATION TAPE	81



THERMOSTAT GUARDS



STM11 - FEATURES:

- Beige metal steel
- Solid steel construction
- Solid base included
- T/Stat clearance area 5 1/2" x 3 1/2" x 2 3/4"



STM1 - FEATURES:

- Beige metal steel
- Solid steel construction
- T/Stat clearance area 6" x 4" x 3"



STG1 FEATURES:

- Clear plastic
- Standard size wall thermostats
- Ring base/solid base
- T/Stat clearance area 5 3/4" x 3 1/2" x 2 3/4"

**STG2 - FEATURES:**

- Clear plastic
- Medium size
- Ring base/solid base
- T/Stat clearance area
4 3/4" x 4 1/4" x 2 3/4"

**STG12 - FEATURES:**

- Clear plastic
- Ring base/solid base
- General application, larger than STG1 and STG2
- T/Stat clearance area
8 1/4" x 4 1/2" x 3 1/4"

**STL10 - FEATURES:**

- Clear plastic
- Low profile design
- Ring/solid base included
- T/Stat clearance area
6 1/4" x 3 3/4" x 1 3/4"

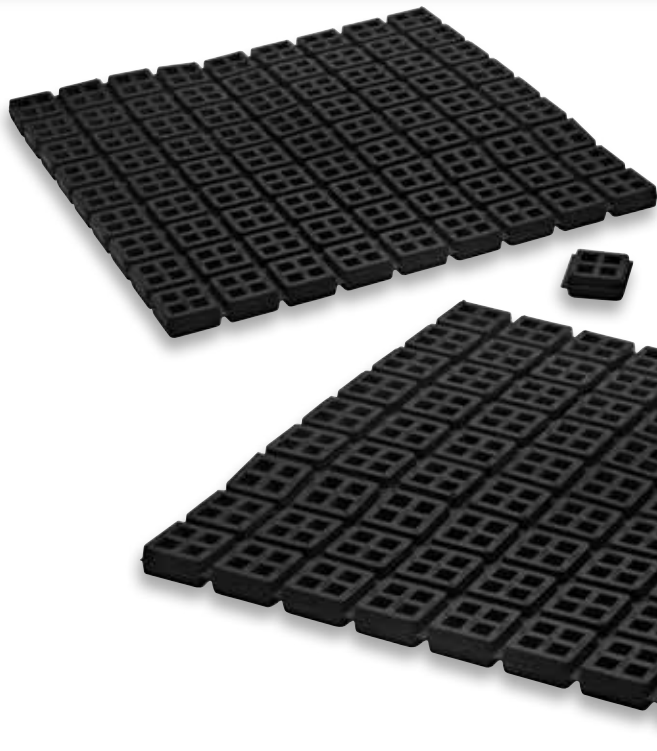
RUBBER ANTI-VIBRATION PADS

FEATURES:

- High quality oil resistant rubber padding
- Designed to withstand up to 50 psi
- Corrugated on both sides



PART NO.	DESCRIPTION	PCS/CTN
MP-2E	2"x2"x3/8" EVA/Rubber	100
MP-3E	3" X 3" X 3/8" EVA/Rubber	36
MP-4E	4" X 4" X 3/8" EVA/Rubber	24
MP-6E	6" X 6" X 3/8" EVA/Rubber	12
MP-18E	18" X 18" X 3/8" EVA/Rubber	6



ISO-CUBE PADS

FEATURES:

- Reduce vibration and noise
- Corrugated on both sides
- High quality oil resistant rubber padding
- Designed to withstand up to 50 psi

PART NO.	DESCRIPTION	PCS/CTN
ISO-2	2"x2"x3/4" iso-Cube pad	24
ISO-4	4"x4"x3/4" iso-Cube pad	12
ISO-18	18x18"x3/4" iso-Cube pad	6

FOAM INSULATION TAPE

FEATURES:

- Easy cut and molded



PART NO.	DESCRIPTION
SFF30	1/8" x 2" x 30' Roll

SE





MINI-SPLIT REPLACEMENT PARTS

The general mini-split replacement parts section is composed of the most common parts that need replacement such as sensors, capacitors, compressors, remotes for all brands. In addition to all the products you need for installation for any brand or sizes, such as mounting brackets, communication wire, and installation kit.

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LINE SETS.....	90
CONDENSER BRACKETS.....	91
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SMART ELECTRIC REPLACEMENT SENSORS:

Mini-split air conditioner and heat pump equipment require standard protection control for normal operation. Sensors are widely used in these types of equipment to prevent the system from running under abnormal conditions. There are typically two sensors in the evaporator, room temperature sensors and coil temperature sensors. These two sensors differ on calibration range and the lead material.

PLASTIC AMBIENT TEMPERATURE SENSOR

PART NO.	DESCRIPTIONS
PS10	10K Ω Ambient Temperature Sensor with 3' Lead
PS15	15K Ω Ambient Temperature Sensor with 3' Lead



PLASTIC AMBIENT



COPPER COIL

COPPER COIL TEMPERATURE SENSOR

PART NO.	DESCRIPTIONS
CP10	10K Ω Coil Temperature Sensor with 3' Lead
CP20	20K Ω Coil Temperature Sensor with 3' Lead

SE420H HEAT SINK COMPOUND

THERMAL CONDUCTIVE PASTE APPLIED UNDER ELECTRONIC CHIPS AND OTHER HEAT GENERATING DEVICES. IT'S MAIN PURPOSE IS HEAT DISSIPATION THROUGH A METAL CHASSIS OR FIN SURFACE. HEAT SINK COMPOUND DISSIPATES HEAT AWAY FROM THE PFC BOARD AND/OR DRIVE BOARD.



INTERCONNECTING WIRES

16/4 STRANDED BC SHIELDED CMP • 16/4 STR COMPACT 250'R BLK
 16/4 STR COMPACT 50'R BLK • 22/4 STR SHIELDED CMP
 14/4 STRANDED BC SHIELDED CMP



PART NO.	PURPOSE	SPECS	DESCRIPTION	PRODUCT
ICW-1	Outdoor/Indoor interconnecting wire	16/4 AWG CMP Plenum Multi-Conductor Shielded Wire, Sold by the foot	Mini-Split 16/4 AWG Stranded and Shielded wire strongly recommended for interconnecting Outdoor and Indoor units.	
ICW-2	Outdoor/Indoor interconnecting wire	16/4 AWG Bare Copper Power and Control Cable, Sold by the foot	Mini-Split 16/4 Stranded wire for interconnecting signal between Outdoor and Indoor unit, for residential applications where interference is not critical.	
ICW-3	Outdoor/Indoor interconnecting wire	22/4 AWG CMP Plenum Multi-Conductor Shielded Wire, Sold by the foot	Mini-Split 22/4 AWG Stranded and Shielded wire strongly recommended for interconnecting CHP024CD-B(O) Outdoor with CCA-24, FCA-24, TCA-24 Evaporators.	
ICW-4	Outdoor/Indoor interconnecting wire	14/4 AWG CMP Plenum Multi - Conductor Shielded Wire	Mini-Split 14/4 AWG Stranded and Shielded wire strongly recommended for interconnecting Outdoor and Indoor units.	

SMART ELECTRIC REMOTE CONTROL:

Thousands of codes available to match up to 4,000 different types of Mini-splits. Simply locate a matching code for your Mini-split brand on the list available, then using the Remote Control point at the evaporator unit and follow the Instructions on the manual. After programming the Remote Control successfully, your system is ready to operate normally.

REMOTE CONTROL FOR MINI-SPLITS FOR ALL BRANDS

- 4000 different codes compatible with multiple air conditioning equipment brands
- No programming necessary for several recognizable air conditioning brands
- User-friendly Auto-Search Code function
- Energy-Saving Feature (Sleep Function)
- Clock Settings and 24-Hr On-Off timer
- General Lock Function to prevent undesired programming changes
- Bright LCD display
- Memory Function: settings are not lost during battery change-out
- °F Display and °C Display settings



PART NO.	DESCRIPTION
CU5000	Fahrenheit/Celsius remote

GMCC AIR CONDITIONING ROTARY COMPRESSOR

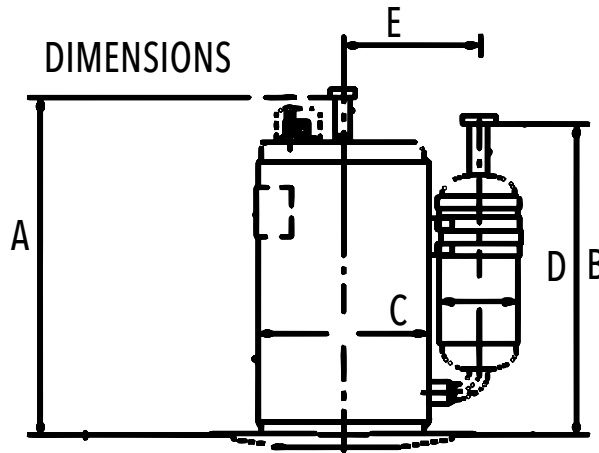
THESE HIGHLY RELIABLE AND HIGH EFFICIENCY ROTARY COMPRESSORS ARE PERFECT FOR RESIDENTIAL AND COMMERCIAL AIR CONDITIONING

FEATURES

- Evaporating temp: 7.2°/45oF
- Condensing temp: 54.4°/130oF
- Return gas temp: 35.0°/95oF
- Ambient temp: 35.0°/95oF
- Liquid temp: 46.1°/115oF
- Conversion table: Kcal/h x 1.163 = W
W x 3.412 = Btu/h

R22 COMPRESSOR MODEL	POWER	CAPACITY (BTU)	EER	RLA (A)	LRA (A)	CAPACITOR	MOTOR TYPE
EH130M1C-1DZDU1	115V/60hz/1phase	9212	10.81	7.95	37.4	55	PSC
EH170M1B-1DZ1	115V/60hz/1phase	11942	10.68	9.58	57	55	PSC
PH135X1C-3DZDU2	208/230V/60hz/1phase	9434	10.75	4.45	26	35	PSC
PH170G1C-3DZDU1	208/230V/60hz/1phase	12027	10.92	5.21	26.7	35	PSC
PH170G1C-3FTU	208/230V/60hz/1phase	12232	10.99	5.3	22.6	35	PSC
PH240M2C-3FTU1	208/230V/60hz/1phase	17247	10.85	7.6	29.6	40	PSC
PH290X2C-3FTU1	208/230V/60hz/1phase	21222	10.5	9.72	53.6	50	PSC
PH331X3C-3MUU1	208/230V/60hz/1phase	24122	10.92	10.5	44	55	PSC
PH361X3CS-3KTU	208/230V/60hz/1phase	26272	10.75	11.55	45	55	PSC
PH400X3CS-3MTU	208/230V/60hz/1phase	29786	10.88	13	59.93	55	PSC

R22 COMPRESSOR MODEL	DIMENSION (IN)					LOADING QUANTITY PER PALLET	CERTIFICATIONS
	A	B	C	D	E		
EH130M1C-1DZDU1	10.47	9.96	4.61	2.17	3.70	80	UL & CSA
EH170M1B-1DZ1	11.22	10.12	4.57	2.17	3.70	80	UL & CSA
PH135X1C-3DZDU2	11.22	9.84	4.61	2.17	3.70	80	UL
PH170G1C-3DZDU1	11.22	9.84	4.57	2.17	3.70	80	UL
PH170G1C-3FTU	11.22	9.96	4.57	3.15	4.25	60	UL
PH240M2C-3FTU1	11.50	9.61	5.12	3.15	4.53	60	UL & CSA
PH290X2C-3FTU1	12.24	9.69	5.08	3.15	4.53	60	UL
PH331X3C-3MUU1	13.11	12.64	5.71	3.15	4.80	48	UL & CSA
PH361X3CS-3KTU	13.58	13.15	5.71	3.15	4.80	48	UL & CSA
PH400X3CS-3MTU	14.61	13.15	5.71	3.15	4.80	48	UL



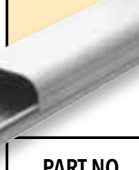
R410A COMPRESSOR MODEL	POWER	CAPACITY (BTU)	EER	RLA (A)	LRA (A)	CAPACITOR	MOTOR TYPE
ASN82N1UDZ	208/230V/60hz/1phase	8576	10.24	4.05	20.3	25	PSC
PA118M1C-3FZU	208/230V/60hz/1phase	11703	10.37	5.4	27	35	PSC
PA170M2C-3ETU	208/230V/60hz/1phase	17332	10.2	8.2	40	40	PSC
PA210M2C-3ETU2	208/230V/60hz/1phase	21256	10.34	9.9	55.4	50	PSC
PA240M2C-3MTU	208/230V/60hz/1phase	24481	10.24	11.6	55.4	55	PSC

R410A COMPRESSOR MODEL	DIMENSION (IN)					LOADING QUANTITY PER PALLET	CERTIFICATIONS
	A	B	C	D	E		
ASN82N1UDZ	9.80	8.82	4.21	2.15	3.19	80	UL & CSA
PA118M1C-3FZU	10.94	9.69	4.61	3.15	3.70	80	UL & CSA
PA170M2C-3ETU	11.93	9.53	5.12	2.52	4.17	60	UL & CSA
PA210M2C-3ETU2	12.68	9.53	5.12	2.52	4.17	60	UL & CSA
PA240M2C-3MTU	12.68	11.65	5.12	3.15	4.53	60	UL & CSA

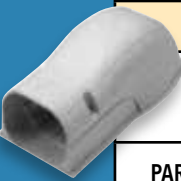
LINE SET COVERS AND PLASTIC FITTINGS FOR MINI SPLITS

FEATURES:


- For residential and light commercial applications
- UV Resistant • Fire Resistant ABS
- Equivalent UL-94V-0 • Natural Sand Color



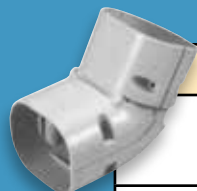
SPLIT LINE TUBE											
Dimensions (in/mm)											
PART NO.	A		B		C		D		E		Weight (Ounces)
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SDD65	2 5/16	59	2 5/16	59	78 3/4	2000	N/A	N/A	N/A	N/A	32.0
SDD75	2 15/16	75	2 7/16	62	78 3/4	2000	N/A	N/A	N/A	N/A	41.0
SDD110	4 5/16	110	3 1/16	78	78 3/4	2000	N/A	N/A	N/A	N/A	69.0



WALL COVER/INLET											
Dimensions (in/mm)											
PART NO.	A		B		C		D		E		Weight (Ounces)
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SWW65	2 9/16	65	2 9/16	65	7 7/8	200	3 1/16	78	3 3/16	81	4.0
SWW75	3 1/4	83	2 11/16	68	8 1/4	210	3 11/16	94	3 1/4	83	6.0
SWW110	4 5/8	117	3 1/4	83	9 5/8	244	5 3/8	137	3 13/16	97	9.0



UNIVERSAL ELBOW (HORIZONTAL)											
Dimensions (in/mm)											
PART NO.	A		B		C		D		E		Weight (Ounces)
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SEC65	2 9/16	65	2 9/16	65	5 3/8	137	N/A	N/A	N/A	N/A	5.0
SEC75	3 1/4	83	2 11/16	68	5 3/4	146	N/A	N/A	N/A	N/A	5.0
SEC110	4 5/8	117	3 1/4	83	8 1/8	206	N/A	N/A	N/A	N/A	14.0



UNIVERSAL ELBOW (VERTICAL)											
Dimensions (in/mm)											
PART NO.	A		B		C		D		E		Weight (Ounces)
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SDC65	2 9/16	65	2 9/16	65	4 3/4	121	N/A	N/A	N/A	N/A	4.0
SDC75	3 1/4	83	2 11/16	68	4 13/16	122	N/A	N/A	N/A	N/A	4.0



90° ELBOW (VERTICAL)											
PART NO.	Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SEE65	2 9/16	65	2 9/16	65	4 3/4	121	N/A	N/A	N/A	N/A	3.0
SEE75	3 1/4	83	2 11/16	68	4 7/8	124	N/A	N/A	N/A	N/A	4.0
SEE110	4 5/8	117	3 1/4	83	5 5/16	135	N/A	N/A	N/A	N/A	7.0



WALL ENTRY FITTING											
PART NO.	Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SW65	4 5/16	110	4 5/16	110	5/8	16	N/A	N/A	N/A	N/A	1.0
SW75	4 15/16	125	4 1/2	114	5/8	16	N/A	N/A	N/A	N/A	2.0
SW110	7 7/8	200	7 1/16	179	5/8	16	N/A	N/A	N/A	N/A	2.0



T-JOINT											
PART NO.	Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
ST75	3 1/4	83	2 11/16	68	4 3/4	121	6 5/16	160	1	25	8.0
ST110	4 5/8	117	2 15/16	75	7 7/8	200	10 1/8	257	1 3/16	30	16.0



JOINT											
PART NO.	Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SJ65	2 9/16	65	2 9/16	65	3 1/8	79	N/A	N/A	N/A	N/A	2.0
SJ75	3 1/4	83	2 11/16	68	3 1/8	79	N/A	N/A	N/A	N/A	2.0
SJ110	4 5/8	117	3 1/4	83	3 1/8	79	N/A	N/A	N/A	N/A	3.0



REDUCER JOINT											
PART NO.	Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SRJ75	2 11/16	68	2 11/16	68	3 9/16	90	3 1/4	83	2 11/16	68	3.0
SRJ110	3 3/8	86	2 13/16	71	3 9/16	90	4 5/8	117	3 1/4	83	4.0

FLEXIBLE REFRIGERANT LINE SET CONNECTOR

ELIMINATES KINKING OF THE COPPER TUBING WHEN CONNECTING TO THE MINI-SPLIT INDOOR EVAPORATOR 3 FT OVERALL LENGTH



FEATURES:

- 3" copper stubs for silver solder or flaring
- Stainless steel corrugated pipe
- Pressure Rating : 800 PSI suitable for R410a system
- 4 Sizes available:

PART NO.	DESCRIPTION	LENGTH
SFLC1/4	1/4"	3'
SFLC3/8	3/8"	3'
SFLC1/2	1/2"	3'
SFLC5/8	5/8"	3'

LINE SETS

TABLE BELOW SHOWS LINESET SIZE REQUIREMENTS FOR ALL OF OUR MINI-SPLITS. STANDARD LENGTH AVAILABLE IS 15-FT. OPTIONAL LENGTHS* ARE ALSO AVAILABLE UPON REQUEST. ANY OTHER LENGTH NEEDED, PLEASE CONTACT US DIRECTLY. NOTE: COPPER LINE SETS. NO FLARE FITTINGS INCLUDED.



PART NO.	LIQUID (IN)	SUCTION (IN)	INSULATION (IN)	LENGTH (FT)	OPTIONAL LENGTH (FT)	
LST-A	1/4	3/8	1/2	15	25	100
LST-B	1/4	1/2	1/2	15	25	100
LST-C	1/4	5/8	1/2	15	25	100
LST-D	3/8	5/8	1/2	15	25	100

MINI-SPLIT CONDENSER MOUNTING BRACKETS

BRACKETS OFFER STRONG AND SECURE SUPPORT FOR MINI-SPLIT CONDENSERS IN VARIOUS MOUNTING LOCATIONS. ALL OF OUR BRACKETS ARE CONSTRUCTED OF HEAVY DUTY STEEL AND HIGH QUALITY FINISH FOR MAXIMUM WEATHER RESISTANCE.

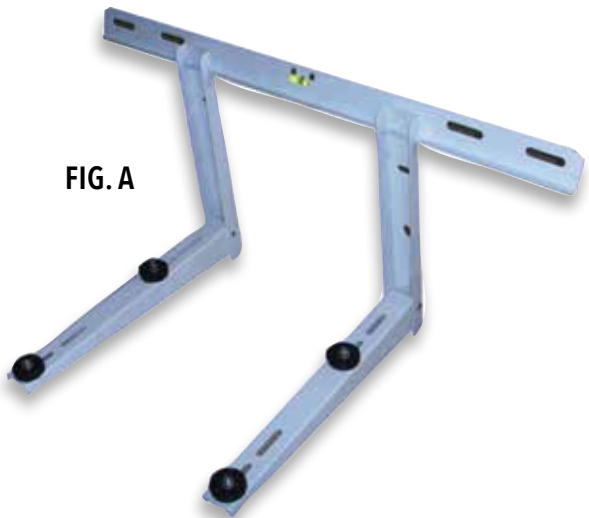


FIG. A

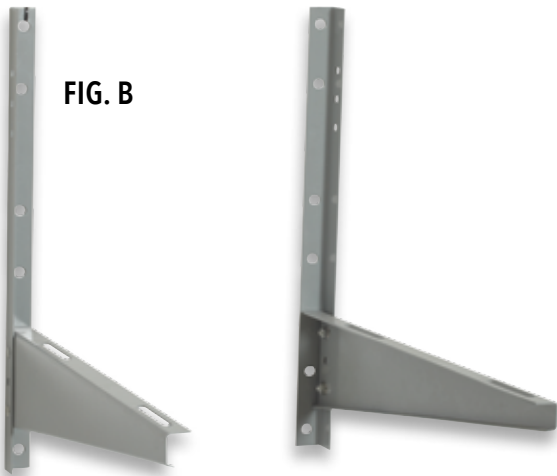


FIG. B

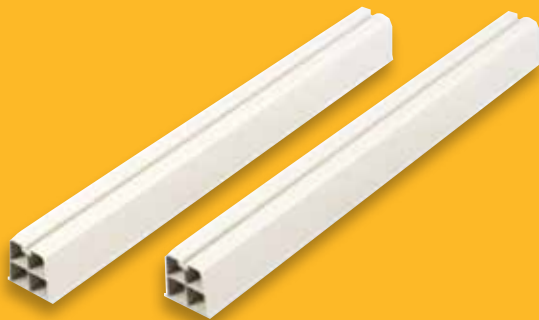


PART NO.	FIGURE	H x W x D	MAX. LOAD	FINISH
SB33	A	18" x 33.5" x 22"	300 lbs	Powdercoat
SB35	A	18" x 33.5" x 24"	500 lbs	Powdercoat
SB46	B	23 5/8" x 23 5/8"	300 lbs	Powdercoat
SB47	B	17 3/4" x 13 3/4"	500 lbs	Powdercoat

PLASTIC MINI-SPLIT MOUNTING CHANNEL

FEATURES:

- 4" Ivory Riser
- Simple secure mounting for small and large piping systems, ductwork runs, cable trays and small equipment such as condensers



PART NO.	LONG	UPPER SIDE WIDTH	LOWER SIDE WIDTH	HEIGHT	MAX. LOAD	FINISH
SER4	13 3/4 in	3 1/4 in	4 in	3 3/4 in	300 lbs	Plastic



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SE

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