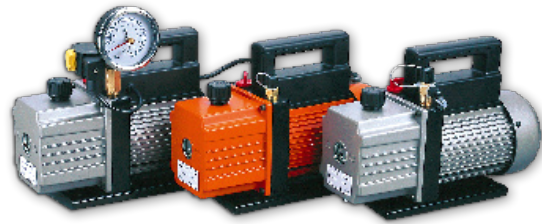


Vacuum Pump



SVP Series (1Stage)

Item n o.	Voltage	Flowrate		Ultimate Vacuum		Power	Inlet port	Weight	Stage
		CFM	l/min	Pa	Mbar				
SVP-1815	110V/60Hz	1.8	52	5	0.05	1/4HP	1/4"Flare	6.5kg	1
	220V/50Hz	1.5	42	5	0.05				
SVP-3025	110V/60Hz	3	84	5	0.05	1/4HP	1/4"Flare	6.8kg	1
	220V/50Hz	2.5	72	5	0.05				
SVP-4035	110V/60Hz	4	114	5	0.05	1/3HP	1/4" & 3/8"Flare	8.0kg	1
	220V/50Hz	3.5	100	5	0.05				
SVP-5045	110V/60Hz	5	142	5	0.05	1/3HP	1/4" & 3/8"Flare	8.2kg	1
	220V/50Hz	4.5	128	5	0.05				
SVP-8065	110V/60Hz	8	226	5	0.05	1/2HP	1/4" & 3/8"Flare	12kg	1
	220V/50Hz	6.5	184	5	0.05				
SVP-10080	110V/60Hz	10	284	5	0.05	3/4HP	1/4" & 3/8"Flare	20kg	1
	220V/50Hz	8	226	5	0.05				

2SVP Series (2Stage)

Item n o.	Voltage	Flowrate		Ultimate Vacuum		Power	Inlet port	Weight	Stage
		CFM	l/min	Pa	Microns				
2 SVP-1815	110V/60Hz	1.8	52	3×10^{-1}	25	1/4HP	1/4"Flare	7.1kg	2
	220V/50Hz	1.5	42	3×10^{-1}	25				
2 SVP-3025	110V/60Hz	3	84	3×10^{-1}	25	1/3HP	1/4"Flare	8.4kg	2
	220V/50Hz	2.5	72	3×10^{-1}	25				
2 SVP-4035	110V/60Hz	4	114	3×10^{-1}	25	1/3HP	1/4" & 3/8"Flare	11.2kg	2
	220V/50Hz	3.5	100	3×10^{-1}	25				
2 SVP-5045	110V/60Hz	5	142	3×10^{-1}	25	1/2HP	1/4" & 3/8"Flare	11.4kg	2
	220V/50Hz	4.5	128	3×10^{-1}	25				
2 SVP-8065	110V/60Hz	8	226	3×10^{-1}	25	3/4HP	1/4" & 3/8"Flare	18kg	2
	220V/50Hz	6.5	184	3×10^{-1}	25				
2 SVP-10080	110V/60Hz	10	284	3×10^{-1}	25	3/4HP	1/4" & 3/8"Flare	21kg	2
	220V/50Hz	8	226	3×10^{-1}	25				



HVP Series (1Stage)

Item n o.	Voltage	Flowrate		Ultimate Vacuum		Power	Inlet port	Weight	Stage
		CFM	l/min	Pa	Mbar				
HVP-1815	110V/60Hz	1.8	50	5	0.05	1/4HP	1/4"Flare	6.3kg	1
	220V/50Hz	1.5	42	5	0.05				
HVP-3025	110V/60Hz	3	84	5	0.05	1/4HP	1/4"Flare	7.1kg	1
	220V/50Hz	2.5	70	5	0.05				
HVP-4035	110V/60Hz	4	114	5	0.05	1/3HP	1/4" & 3/8"Flare	8.1kg	1
	220V/50Hz	3.5	100	5	0.05				
HVP-5045	110V/60Hz	5	142	5	0.05	1/3HP	1/4" & 3/8"Flare	8.2kg	1
	220V/50Hz	4.5	128	5	0.05				
HVP-7060	110V/60Hz	7	198	5	0.05	1/2HP	1/4" & 3/8"Flare	10.5kg	1
	220V/50Hz	6.0	170	5	0.05				
HVP-9080	110V/60Hz	9	254	5	0.05	3/4HP	1/4" & 3/8"Flare	15kg	1
	220V/50Hz	8	226	5	0.05				

2HVP Series (2Stage)

Item n o.	Voltage	Flowrate		Ultimate Vacuum		Power	Inlet port	Weight	Stage
		CFM	l/min	Pa	Microns				
2 HVP-1815	110V/60Hz	1.8	50	3x10 ⁻¹	25	1/4HP	1/4"Flare	7.5kg	2
	220V/50Hz	1.5	42	3x10 ⁻¹	25				
2 HVP-3025	110V/60Hz	3	84	3x10 ⁻¹	25	1/3HP	1/4"Flare	8.6kg	2
	220V/50Hz	2.5	70	3x10 ⁻¹	25				
2 HVP-4035	110V/60Hz	4	114	3x10 ⁻¹	25	1/3HP	1/4" & 3/8"Flare	11.2kg	2
	220V/50Hz	3.5	100	3x10 ⁻¹	25				
2 HVP-5045	110V/60Hz	5	142	3x10 ⁻¹	25	1/2HP	1/4" & 3/8"Flare	11.4kg	2
	220V/50Hz	4.5	128	3x10 ⁻¹	25				
2 HVP-7060	110V/60Hz	7	198	3x10 ⁻¹	25	3/4HP	1/4" & 3/8"Flare	16.5kg	2
	220V/50Hz	6	170	3x10 ⁻¹	25				
2 HVP-9080	110V/60Hz	9	254	3x10 ⁻¹	25	1HP	1/4" & 3/8"Flare	16.7kg	2
	220V/50Hz	8	226	3x10 ⁻¹	25				
2 HVP-120100	110V/60Hz	12	340	3x10 ⁻¹	25	1HP	1/4" & 3/8"Flare	16.7kg	2
	220V/50Hz	10	283	3x10 ⁻¹	25				

(110V / 60 Hz 220V 50 Hz)
Operating at dual voltage and dual frequency



2DVP Series (2Stage)

Item n o.	Voltage	Flowrate		Ultimate Vacuum		Power	Inlet port	Weight	Stage
		CFM	l/min	Pa	Microns				
2 DVP-1815	110V/60Hz	1.8	50	3x10 ⁻¹	25	1/4HP	1/4"Flare	8.4kg	2
	220V/50Hz	1.5	42	3x10 ⁻¹	25				
2 DVP-3025	110V/60Hz	3	84	3x10 ⁻¹	25	1/3HP	1/4"Flare	8.6kg	2
	220V/50Hz	2.5	70	3x10 ⁻¹	25				
2 DVP-4035	110V/60Hz	4	114	3x10 ⁻¹	25	1/3HP	1/4" & 3/8"Flare	11.2kg	2
	220V/50Hz	3.5	100	3x10 ⁻¹	25				
2 DVP-5045	110V/60Hz	5	142	3x10 ⁻¹	25	1/2HP	1/4" & 3/8"Flare	11.4kg	2
	220V/50Hz	4.5	128	3x10 ⁻¹	25				
2 DVP-7060	110V/60Hz	7	198	3x10 ⁻¹	25	3/4HP	1/4" & 3/8"Flare	16.5kg	2
	220V/50Hz	6	170	3x10 ⁻¹	25				
2 DVP-9080	110V/60Hz	9	254	3x10 ⁻¹	25	1HP	1/4" & 3/8"Flare	16.7kg	2
	220V/50Hz	8	226	3x10 ⁻¹	25				
2 DVP-120100	110V/60Hz	12	340	3x10 ⁻¹	25	1HP	1/4" & 3/8"Flare	16.7kg	2
	220V/50Hz	10	283	3x10 ⁻¹	25				

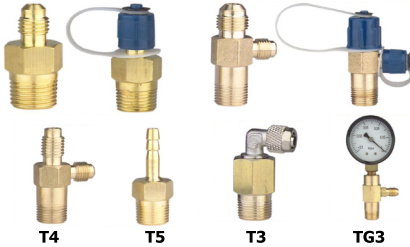
Vacuum Pump Oil



330ml (11.5 Oz)

Item/Model	SVPO-46	SVPO-68
Kinematic Viscosity (40°C),mm ² /s	41.4~50.6	61.2~74.8
Viscosity Index	100	130
Flash Point°C	225	250
Pour Point°C	-10	-35
Type	Mineral oil	Synthetic di-ester oil

Vacuum Pump Accessories



Intake Ports Adapters

Item	Description
T2	1/4" SAE
T3	1/4" SAE 3/8" SAE
T4	1/4" SAE 1/2" Acme
T5	1/4" Tube
T6	1/4" Tube (Locked with M12x1 nut)
TG3	1/4" SAE Vacuum Gauge



Selective Accessories

Item	Description
P1	Solenoid Valve
P2	Solenoid Valve
P3	Blank-off Valve
P4	Filter
P5	Vacuum Gauge
P6	Solenoid valve with 1/4" male x 3/8" Female



AC Power Supply Plugs

Item	Description
C01	China plug
C02	China plug
C03	Australia plug
C04	Europe plug
C05	South Africa plug
C06	America plug
C07	Britain plug
C08	Japan plug
C09	Italy plug

Refrigerant recovery unit

SVR12A

Oil-filled pressure gauge
New blow molded case
Self-clearing valve, purge "on the fly"
Recovers all commonly used refrigerants
(CFC, HCFC, HFC, including R410A)
Design for residential and light commercial system

Economical Recovery Workhorse
Simple easy-to-use design
Compressor: 1/2 HP Oil-less, Piston style
Refrigerant Recovery Rate:
Vapor > 0.26kg/min
Liquid > 1.85kg/min
Push-pull > 6.22kg/min
550 psi High pressure safety "cut-off" switch
Very light weight:15kg
Voltage: 220V 240VAC, 50Hz
110V-120VACK, 60Hz



Refrigerant recovery & recycling & evacuation station

SVRE12P

FEATURES & BENEFITS

Recovers, Recycles, and Evacuates all commonly used refrigerants(EFC, HCFC, HFC), including R410A.
1/2HP, Oil-less compressor recovers both vapor and liquid refrigerants quickly.
2 stage, 5CFM vacuum pump, rated to 25 microns.
High pressure safety "cut-off" switch.
High performance, larger capacity oil separator.
Filter/Drier removes both moisture and acid of the refrigerants.
Wheels and extendable handle make it easy to move.(For VRE12P)
Design for commercial and automotive A/C system.



Halogen Leak Detector

HLD-200

Power supply: 3VDC (2XAA battery)
Max. Sensitivity: R12, R22, R134a: 6gr/yr
Probe life: about 30h
Working temperature: 0°C~ 52°C
Battery life: 30h under normal condition
Working mode: continuous, no limit
Response time: instantaneous
Warm-up time: about 6s
Resetting time: 2s
Weight: 200g
Size: 17.0cmX3.4cm X 5.5cm
Probe length: 30.5cm



CPU-1G

Power supply: 3V DC, two cell Alkaline batteries
Maximum sensitivity: R12,R22,R134a,0.5 oz/yr (14g/yr)
Ultimate sensitivity: less than 0.1 oz/yr (3g/yr) for all halogen based refrigerants
Sensing tip life: approx. 20hours
Operating temperature: 30°F to 125°F (0°C to 52°C)
Battery life: approximately 30 hours in normal use
Duty cycle: continuous, no limitation
Response time: two second
Warm-up time: approximately 6 seconds



CPU-C

Power supply: DC3V, Size 2 Alkaline batteries(2)
Maximum sensitivity: R12, R22 and R134a have got approved.14g/y
Limit sensitivity: fitting for halogenating refrigeratingmedium 3g/yr
Sensor life expectancy: about 20 hours
Battery life expectancy: About 30 hours under normal condition
Mode: Continous and no limit
Reaction time: Instantaneous
Warm-up time: 6 seconds
Reset time: 2 seconds



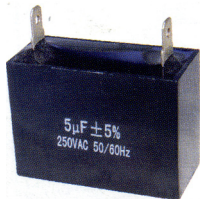
Run Capacitor

Metallized Film Run Capacitors



ROUND TYPE-CBB65 Rated Voltage 370V(AC)

Rated Cap. MFD	Dimension	
	O.D.	Height
5	40	70
7.5	40	70
10	40	70
12.5	40	70
15	40	70
20	40	85
20+5	50	90
25	40	105
25+5	50	90
30	45	90
30+5	55	90
35	50	105
35+5	55	100
40	45	105
40+5	60	100
45	50	105
45+5	60	100
50	50	105
55	50	115
60	50	115
65	60	115
70	55	115



OVAL TYPE- CBB66 Rated Voltage 370V(AC)

Rated Cap. (MFD)	Dimension (mmxmmxmm)
3	31.5 x 31.5 x 60
5	31.5 x 31.5 x 60
7.5	31.5 x 31.5 x 80
10	31.5 x 31.5 x 80
12.5	31.5 x 31.5 x 80
15	31.5 x 31.5 x 80
20	45.5 x 71.5 x 95
20+5	45.5 x 71.5 x 95
25	45.5 x 71.5 x 95
25+5	45.5 x 71.5 x 95
30	45.5 x 71.5 x 95
30+5	45.5 x 71.5 x 95
35	45.5 x 71.5 x 95
35+5	45.5 x 71.5 x 95
40	45.5 x 71.5 x 95
40+5	45.5 x 71.5 x 110
45	45.5 x 71.5 x 110
45+5	45.5 x 71.5 x 110
50	45.5 x 71.5 x 110

ROUND TYPE-CBB65 Rated Voltage 440V(AC)

Rated Cap. MFD	Dimension	
	O.D.	Height
10	40	80
15	40	90
25	40	105
30	50	105
35	50	105
40	50	115
45	50	115
45+5	60	115
50	50	130
55	50	130
55+5	55	130

Microfarad(µF)	Voltage(V)	Microfarad(µF)	Voltage(V)
1	250	1	450
1.5	250	1.5	450
2	250	2	450
2.5	250	2.5	450
3	250	3	450
4	250	4	450
5	250	5	450

Motor Start Capacitor Round Motor Start Capacitor



110/125VAC

Cap. MFD	Dimensions O.D.	Height	mmxmm
88-108	17/16	23/4	36.5x69.8
108-130	17/16	23/4	36.5x69.8
124-149	17/16	23/4	36.5x69.8
130-156	17/16	23/4	36.5x69.8
145-175	17/16	23/4	36.5x69.8
161-193	17/16	23/4	36.5x69.8
189-227	17/16	23/4	36.5x69.8
216-259	17/16	23/8	36.5x85.7
233-280	17/16	23/8	36.5x85.7
243-292	17/16	23/8	36.5x85.7
270-324	113/16	23/8	46x85.7
324-388	113/16	23/8	46x85.7
340-408	113/16	23/8	46x85.7
378-454	113/16	23/8	46x85.7
400-480	113/16	43/8	46x111
430-516	113/16	43/8	46x111
460-552	113/16	43/8	46x111
540-648	113/16	43/8	46x111
590-708	21/16	43/8	52x111
645-774	21/16	43/8	52x111
708-850	21/16	43/8	52x111
720-864	21/16	43/8	52x111
829-995	21/16	43/8	52x111



220/250VAC

Cap. MFD	Dimensions O.D.	Height	mmxmm
88-108	113/16	23/8	46x85.7
108-130	113/16	23/8	46x85.7
124-149	113/16	23/8	46x85.7
130-156	113/16	23/8	46x85.7
145-175	113/16	43/8	46x111
161-193	113/16	43/8	46x111
189-227	113/16	43/8	46x111
216-259	21/16	43/8	52x111
233-280	21/16	43/8	52x111
243-292	21/16	43/8	52x111
270-324	21/16	43/8	52x111
340-408	21/16	43/8	52x111
378-454	21/16	43/8	52x111
440-480	21/16	43/8	52x111

330VAC

Cap. MFD	Dimensions O.D.	Height	mmxmm
72-86	113/16	43/8	46x111
88-108	21/16	43/8	52x111
108-130	21/16	43/8	52x111
124-149	21/16	43/8	52x111
130-156	21/16	43/8	52x111
145-175	21/16	43/8	52x111
161-193	21/16	43/8	52x111
189-227	21/16	43/8	52x111

Voltage	Capacitor	φxH(mm)
330V	64μF	38x100
330V	80μF	38x100
330V	100μF	38x100

Defrost Compressor Frequent Size

Hard Start Capacitor kits



RCO Series Relay, Overload & Start Capacitor

SUPCO TYPE

Part No	Gemline	Robertshaw	H.P.	Voltage
RC0410	HS410	600-410	1/4, 1/3	115V
RC0810	HS810	600-810	1/12 thru 1/5	115V



SPP8

SPP5 & SPP6

Relay and Hard Start Capacitor

Part No	INCREASED TORQUE
SPP5	300%(270 oz.in.)
SPP6	500%(390 oz.in.)
SPP8	690%(520 oz.in.)

- For all PSC A/C units from 4,000 thru 120,000 BTU(1/2 thru 10 H.P.)
- Can be used on 120 thru 288 VAC units



Hard Start Kits

Part No	Voltage	H.P.	Capacitor
HS600	115-277V	1/2-5	43-52 μ F
HS650	115-277V	1/2-10	130-156 μ F



Relay and Hard Start Capacitor

Part No	Operating Voltage (V)	Equipment Range(HP)	Recommended Range (HP)	Capacitor (μ F)
SPP4E	90-130	1/12 to 1	1/8 to 1	88-106
SPP5E	90-277	1/12 to 10	1/3 to 2	43-52
SPP6E	90-277	1/12 to 10	1/2 to 3	88-106
SPP7E	90-277	1/12 to 10	1 to 4	130-156
SPP8E	90-277	1/12 to 10	1 to 5	189-227