Single
Packs

Single Pack PL30F 100-115V 50/60Hz RSIR

Single pack code number: **195B4500**

Position	Title	Code	Amount
1	Compressor PL30F	101G9100	1
2	PTC starting device (115V, 50hm, 6.3mm)	103N0026	1
3	Cord relief	103N1010	1
4	Cover	103N0492	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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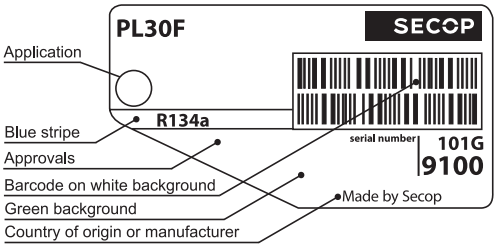
PL30F
Standard Compressor
R134a
100 - 115V 50/60Hz



Approval mark

General

Code number	101G9100
Approvals	UL984
Compressors on pallet	150

Application

Application		LBP/HBP	
Frequency	Hz	50	60
Evaporating temperature	°F	-13 to 59	-13 to 59
Voltage range	V	90 - 127	90 - 127
Max. condensing temperature continuous (short)	°F	122 (140)	122 (140)
Max. winding temperature continuous (short)	°F	257 (275)	257 (275)

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		S	S	S	S	S	S
100°F		S	S	S	S	S	S
110°F		S	S	S	S	S	S
Remarks on application:	- max ambient temperature at 100V: 100°F - max ambient temperature at 115V: 110°F						

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

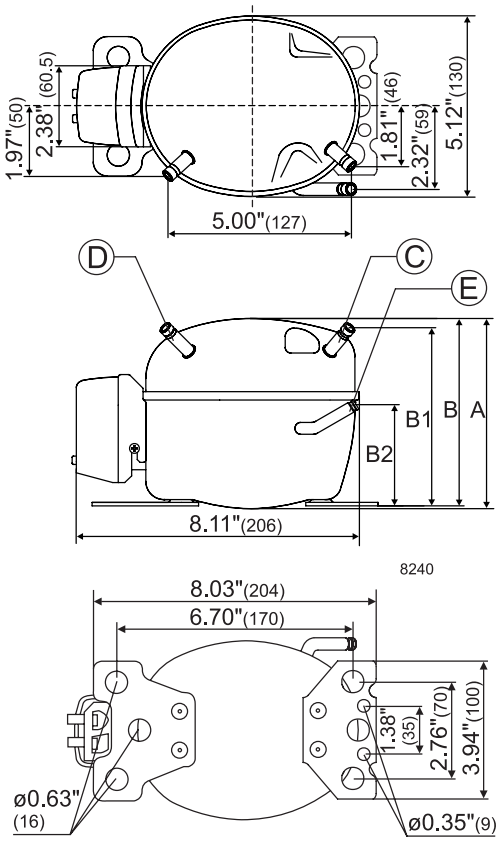
Motor type		RSIR/CSIR	
LRA (rated after 4 sec. UL984), HST | LST	A	6.1	9.5
Cut in Current, HST | LST	A	6.1	9.5
Resistance, main | start winding (77°F)	Ω	7.6	13.6

Design

Displacement	cu.in	0.09
Oil quantity (type)	fl.oz.	5.1 (polyolester)
Maximum refrigerant charge	oz.	10.5
Free gas volume in compressor	fl.oz.	28.9
Weight without electrical equipment	lbs.	9.5

Dimensions

Height	inch	A	5.28
		B	5.20
		B1	4.88
		B2	2.87
Suction connector	location, I.D. in. | angle	C	0.252-0.259 | 40°
	material | comment		Cu-plated steel | Al cap
Process connector	location, I.D. in. | angle	D	0.252-0.259 | 45°
	material | comment		Cu-plated steel | Al cap
Discharge connector	location, I.D. in. | angle	E	0.202-0.205 | 21°
	material | comment		Cu-plated steel | Al cap
Oil cooler connector	location, I.D. in. | angle	F	–
	material | comment		–
Remarks:			



ASHRAE LBP 115V, 60Hz, static cooling, PTC consumption incl.

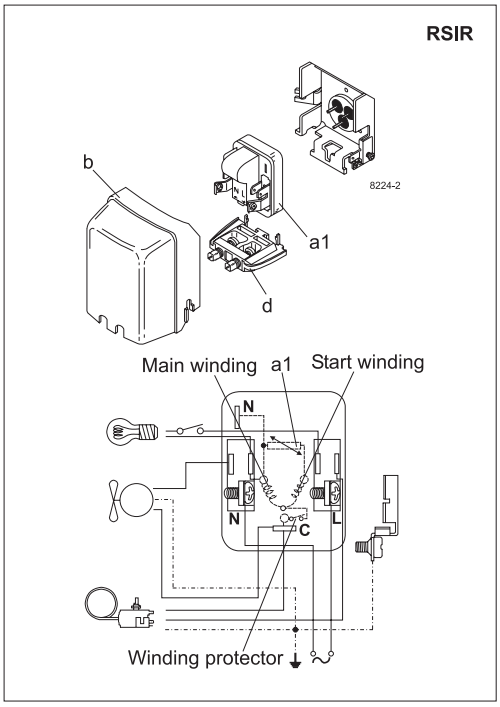
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h					89.1	103	156	221	252	302	399	421	517	584	657	804	
Power cons. in W					49.7	50.8	55.2	60.5	63.0	66.3	72.4	74.0	78.5	81.4	84.2	88.9	
Current cons. in A					1.07	1.07	1.09	1.11	1.12	1.13	1.16	1.16	1.19	1.20	1.22	1.25	
EER in BTU/Wh					1.79	2.03	2.82	3.66	4.01	4.55	5.51	5.72	6.58	7.17	7.79	9.04	

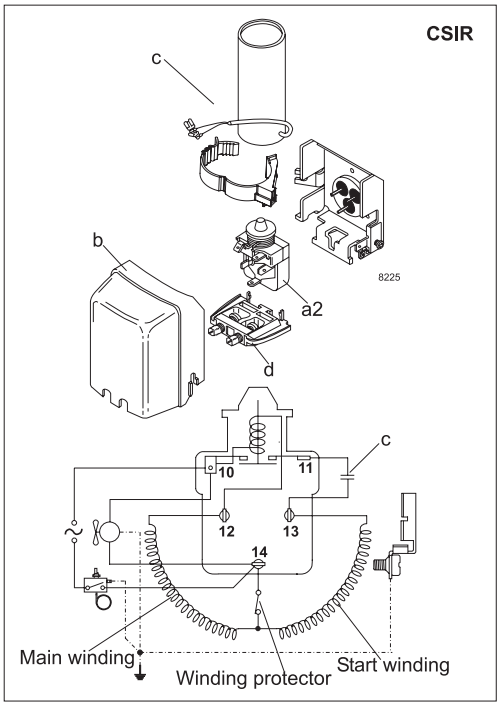
ASHRAE HBP 115V, 60Hz, static cooling, PTC consumption incl.

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h					79.2	91.6	139	197	224	268	354	375	458	517	581	711	
Power cons. in W					49.7	50.8	55.2	60.5	63.0	66.3	72.4	74.0	78.5	81.4	84.2	88.9	
Current cons. in A					1.07	1.07	1.09	1.11	1.12	1.13	1.16	1.16	1.19	1.20	1.22	1.25	
EER in BTU/Wh					1.59	1.80	2.51	3.25	3.07	4.04	4.89	5.09	5.83	6.35	6.90	7.99	

EN 12900 Household (CECOMAF) 115V, 60Hz, static cooling, PTC consumption incl.

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in W					21.0	24.3	36.8	52.3	59.0	71.2	94.2	99.0	122	137	154	189	
Power cons. in W					49.7	50.8	55.2	60.5	63.0	66.3	72.4	74.0	78.5	81.4	84.2	88.9	
Current cons. in A					1.07	1.07	1.09	1.11	1.12	1.13	1.16	1.16	1.19	1.20	1.22	1.25	
COP in W/W					0.42	0.48	0.67	0.86	0.95	1.07	1.30	1.35	1.55	1.69	1.83	2.12	





Accessories for	PL30F	Figure	Code number
PTC starting device	1/4 in. spade connect.	a1	103N0026
	3/16 in. spade connect.		103N0023
Starting relay	1/4 in. spade connect.	a2	117U6000
Cover		b	103N0492
Start. capacitor 80 µF	1/4 in. spade connect.	c	117U5015
Cord relief		d	103N1010

Test conditions	ASHRAE LBP	ASHRAE HBP	EN 12900/ CECOMAF
Condensing temp.	130°F	130°F	131°F
Ambient temp.	90°F	95°F	90°F
Suction gas temp.	90°F	95°F	90°F
Liquid temperature	90°F	115°F	131°F

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 5/8 in.	118-1917
Bolt joint in quantities	Ø: 5/8 in.	118-1918
Snap-on in quantities	Ø: 5/8 in.	118-1919

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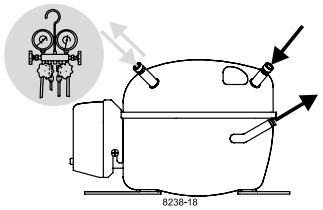


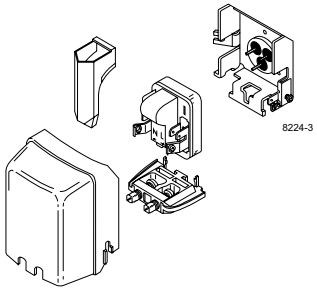
PL Compressors

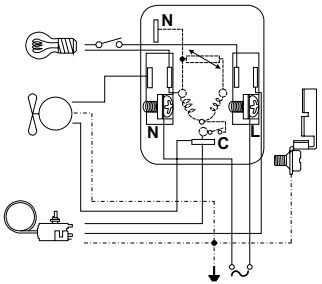
SECOP

Keep electrical equipment clear from oil, chemicals, and water

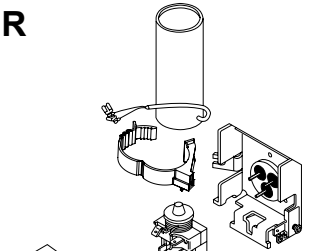
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

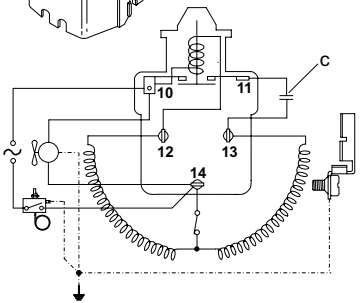
RSIR



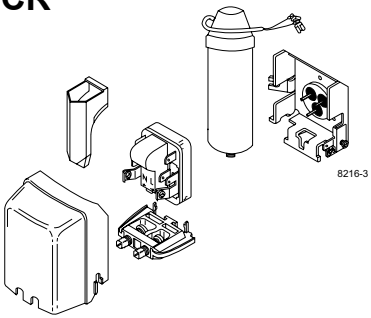


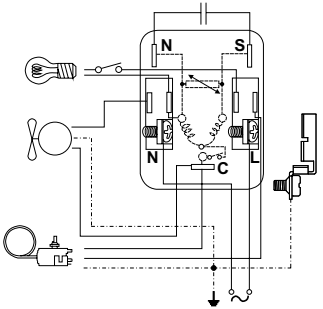
CSIR

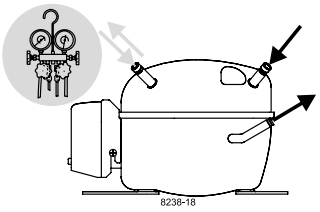




RSCR







PL Compressors

SECOP

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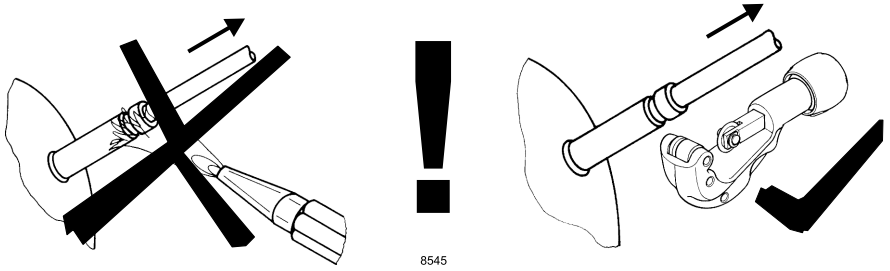
Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**