Single
Packs

SECOP

Single Pack PL35F 220-240V 50Hz RSIR

Single pack code number: **195B4234**

Position	Title	Code	Amount
1	Compressor PL35F	101G0202	1
2	PTC starting device (220V, 250hm, 6.3mm)	103N0011	1
3	Protection screen for PTC	103N0476	1
4	Cord relief	103N1010	1
5	Cover	103N0491	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
PL35F

Sales code:
101G0202

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**4.10 kg / 9.04lbs**
Displacement	**2.00 cm3 / 0.12cu.in**
Compressors on pallet	**150**

General – Configurations With PL35F

–	**Conf. 1**
Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, EAC
Starting torque	LST
Refrigerant	R134a
Application	LBP+MBP

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
PL35F

Sales code:
101G0202

Compressor Design

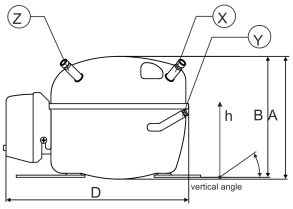
Oil type	**POE**	Winding resistance main	**52.61 Ohm**
Oil viscosity	**15cS**	Winding resistance aux	**20.08 Ohm**
Oil quantity	**153 / 5.17fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**830 cm3 / 28.07fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

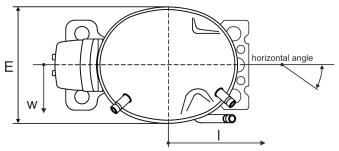
Compressor Dimensions

Housing

A Height	**134mm / 5.28in**
B Height	**132mm / 5.20in**
C Length shell	**156.3mm / 6.15in**
D Length w. cover	**206mm / 8.11in**
E Width	**130mm / 5.12in**

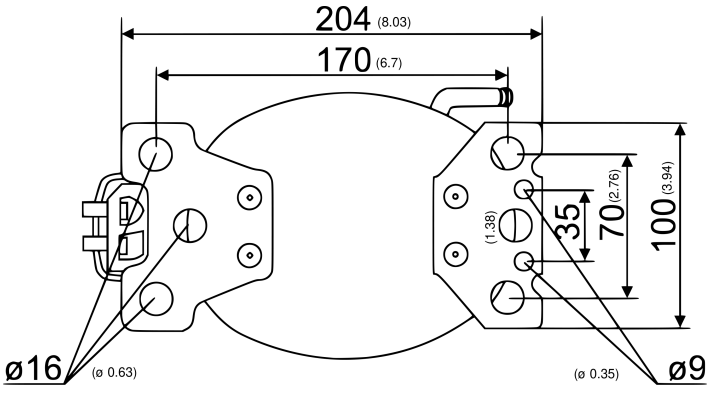
Find 3D Model here





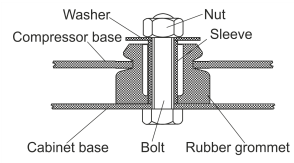
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.41–6.59 / 0.25–0.26in	øi 5.12–5.26 / 0.20–0.21in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	FE/CU	CU
Horizontal angle ±2°	41.5°	0°	45°
Vertical angle ±2°	40°	21°	40°
Position l/h/w [mm]	75/–/46 / 2.95/–/1.81in	76/72/81 / 2.99/2.83/3.19in	63.4/134.7/54 / 2.50/5.30/2.13in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

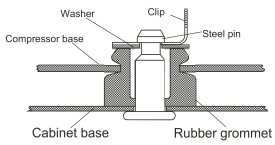


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	–
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Model
PL35F Configuration 1

Sales code:
101G0202

Configuration

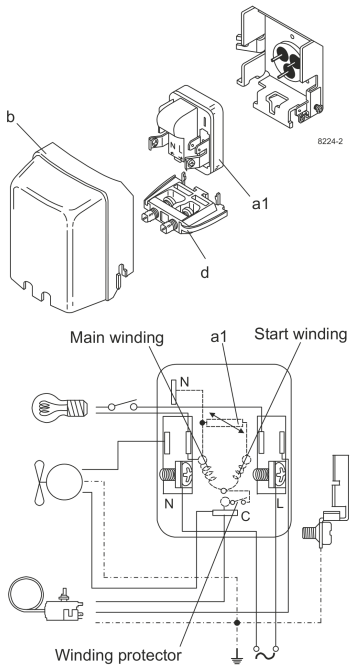
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**1.78 A**
RLA (rated load amps / 1s/ U(N))	**0.42 A**
Cut in current (U(N))	**5.92 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
static

Electrical Accessories / Wiring Diagram

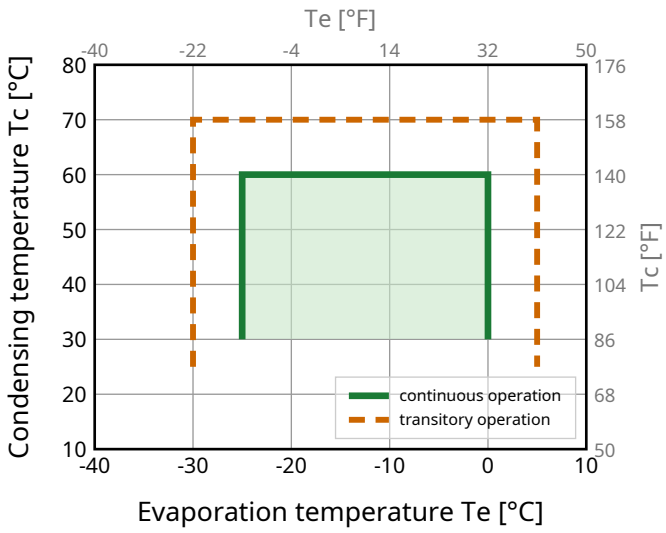
RSIR

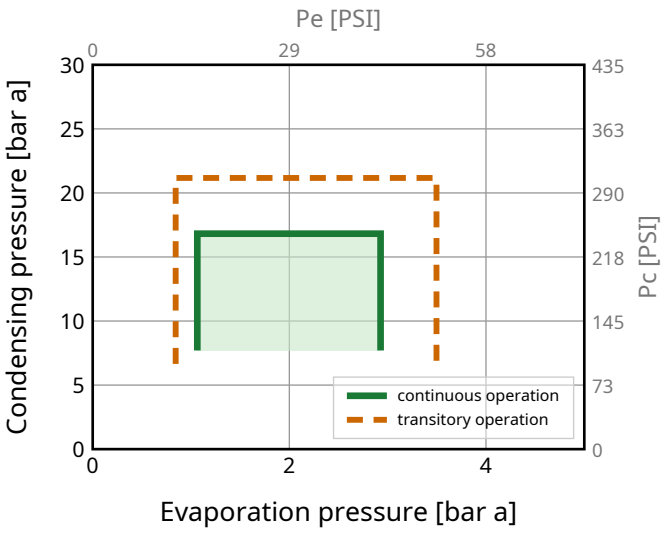


Components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
b plastic cover 103N0491
d cord relief 103N1010
g protection screen for PTC 103N0476

Alternative components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0018
d cord relief 103N1010
g protection screen for PTC 103N0476

Operation Pressure Range





Model Sales code:

PL35F Configuration 1 **101G0202**

Standard Conditions

R134a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**103**	351	89	**1.34**	4.58	77	0.57	2.24	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**79**	269	68	**1.10**	3.75	72	0.55	1.90	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**94**	320	81	**1.41**	4.81	66	0.54	2.19	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**101**	343	87	**1.37**	4.68	73	0.56	2.47	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**97**	331	84	**1.46**	4.98	66	0.54	2.12	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**42**	144	36	**0.86**	2.94	49	0.50	0.91	**opt MBP 2**

Performance Tables

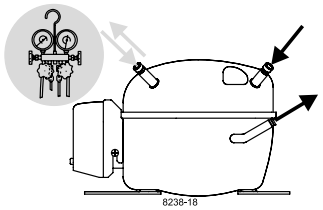
R134a, 220 V/50 Hz, RSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-25	-13	**42**	144	36	**0.86**	2.94	49	0.50	0.91
-20	-4	**57**	196	49	**1.06**	3.61	54	0.51	1.25
-10	14	**97**	331	84	**1.46**	4.98	66	0.54	2.12
0	32	**149**	508	128	**1.86**	6.36	80	0.61	3.28
10	50	**212**	725	183	**2.30**	7.83	92	0.72	4.75
15	59	**249**	849	214	**2.53**	8.64	98	0.80	5.62

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-25	-13	**32**	109	27	**0.64**	2.18	50	0.50	0.76
-20	-4	**45**	152	38	**0.79**	2.69	57	0.51	1.07
-10	14	**79**	269	68	**1.10**	3.75	72	0.55	1.90
0	32	**125**	427	108	**1.42**	4.85	88	0.62	3.05
10	50	**184**	626	158	**1.76**	6.00	104	0.74	4.55
15	59	**217**	741	187	**1.94**	6.62	112	0.82	5.43



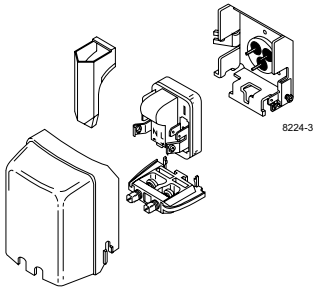
PL Compressors

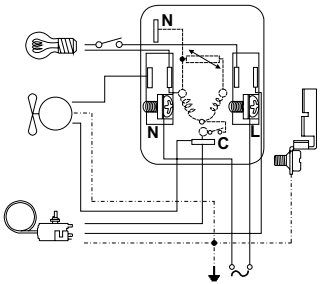
SECOP

Keep electrical equipment clear from oil, chemicals, and water

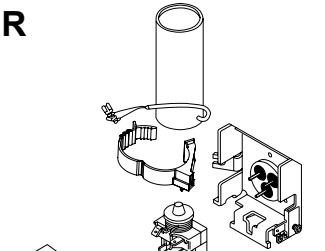
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

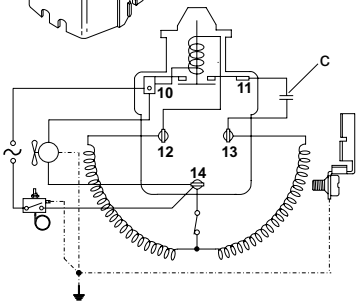
RSIR



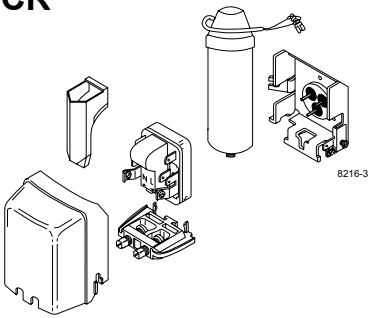


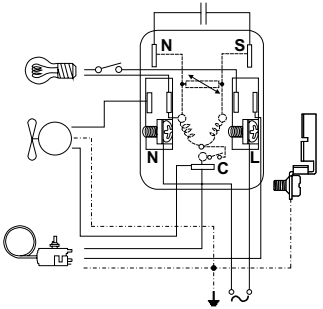
CSIR

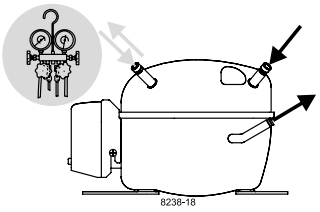




RSCR







PL Compressors

SECOP

Keep electrical equipment clear from oil, chemicals, and water

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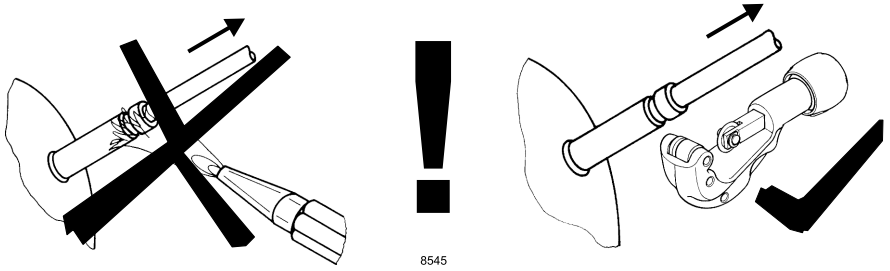
Service/Repair – R600a, R1234yf

(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**