

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

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Compressor Design

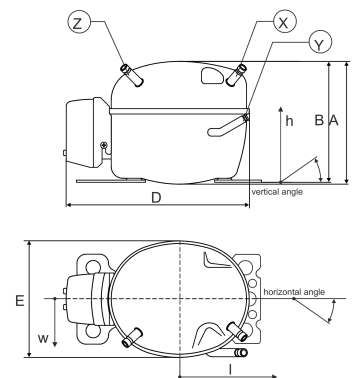
Oil type	POE	Winding resistance main	52.000 Ohm
Oil viscosity	15cS	Winding resistance aux	19.00 Ohm
Oil quantity	153 / 5.17fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	830 cm3 / 28.07fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

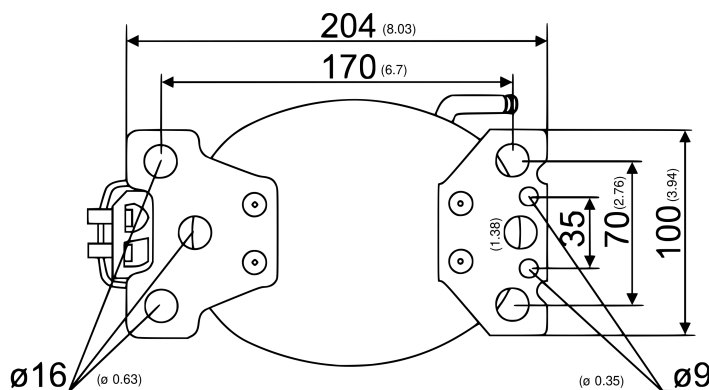
A Height	134mm / 5.28in
B Height	132mm / 5.20in
C Length shell	156.3mm / 6.15in
D Length w. cover	206mm / 8.11in
E Width	130mm / 5.12in

[Find 3D Model here](#)



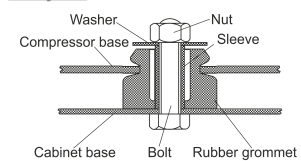
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.41–6.59 / 0.25–0.26in	øi 5.12–5.26 / 0.20–0.21in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	FE/CU	CU
Horizontal angle ±2°	41.5°	0°	45°
Vertical angle ±2°	40°	21°	40°
Position l/h/w [mm]	75/-/46 / 2.95/-/1.81in	76/72/81 / 2.99/2.83/3.19in	63.4/134.7/54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

Mounting Accessories

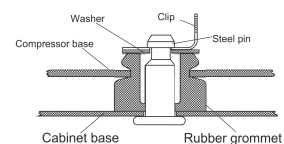


Dimensions in mm [in]

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

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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

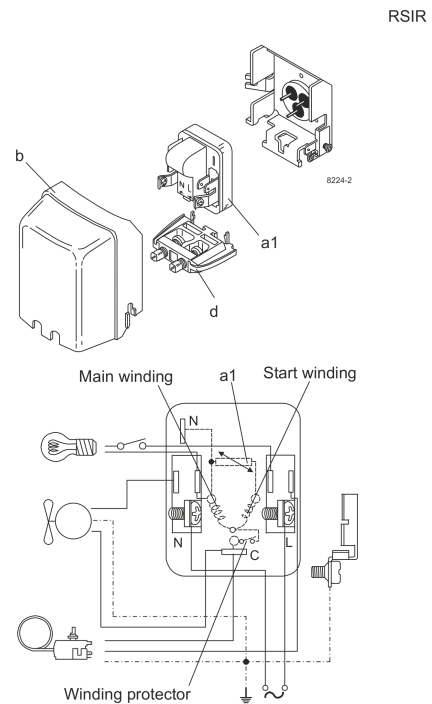
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

static

Electrical Accessories / Wiring Diagram



Components

a1 PTC starter (220V, 250Ω, 6.3mm) 103N0011

b plastic cover 103N0491

d cord relief 103N1010

g protection screen for PTC 103N0476

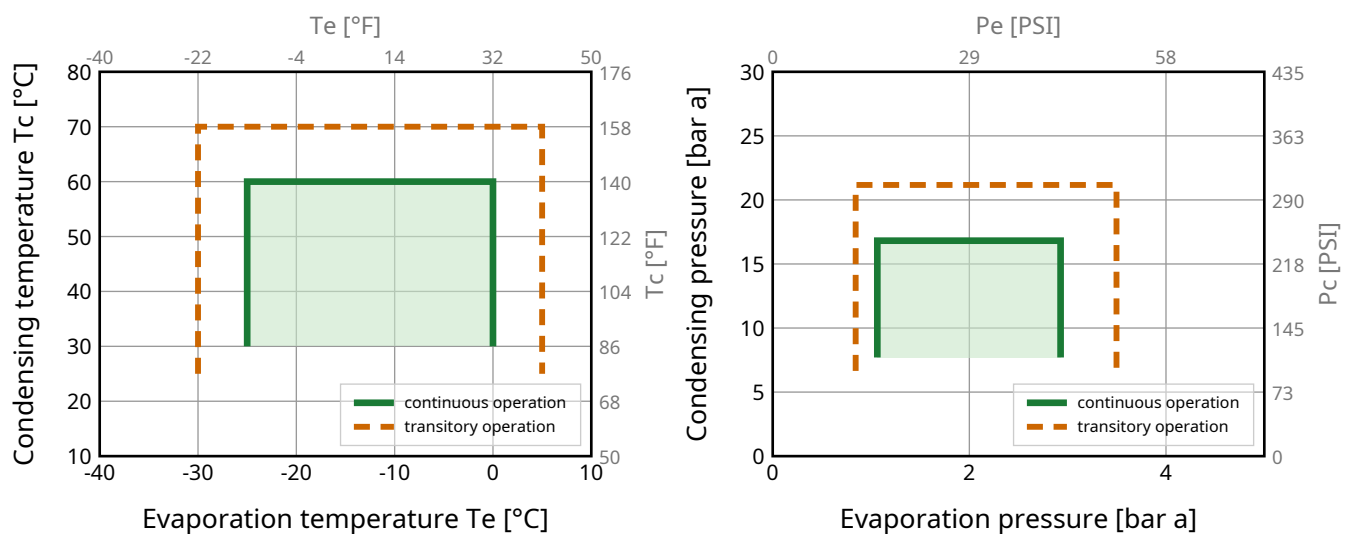
Alternative components

a1 PTC starter (220V, 250Ω, 4.8mm) 103N0018

d cord relief 103N1010

g protection screen for PTC 103N0476

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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
-23.3 -10	45 113	32.2 90	32.2 90	52	178	45	1.03	3.53	51	0.50	1.01	opt LBP

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	m
[°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