

Model
NL9FT

Sales code:
105G6828

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	8.35 cm3 / 0.51cu.in
Compressors on pallet	80



General - Configurations With NL9FT

-	Conf. 1	Conf. 2
Motor configuration	CSIR	RSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	187-254 V	187-254 V
Approvals	VDE	VDE
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP	LBP

Application Notes

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

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Compressor Design

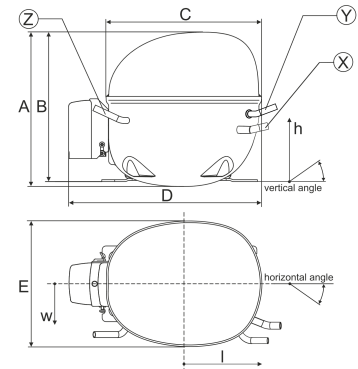
Oil type	POE	Winding resistance main	8.900 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.00 Ohm
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. winding temp.	125 °C
Motor protection	internal	Max. discharge temp.	130°C / 266°F

Compressor Dimensions

Housing

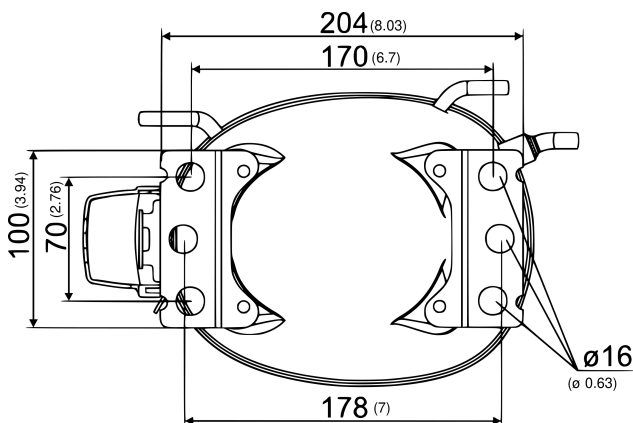
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

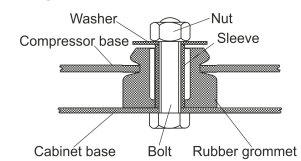


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	9 A
RLA (rated load amps / 1s/ U(N))	1.6 A
Cut in current (U(N))	12.8 A

Ambient/ machine room temperatures minimum /maximum

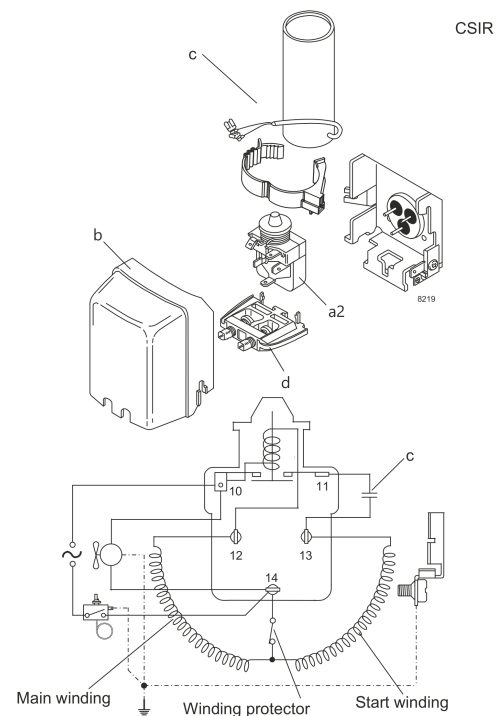
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

a2 relay 117U6015

c start capacitor (80µF) 117U5015

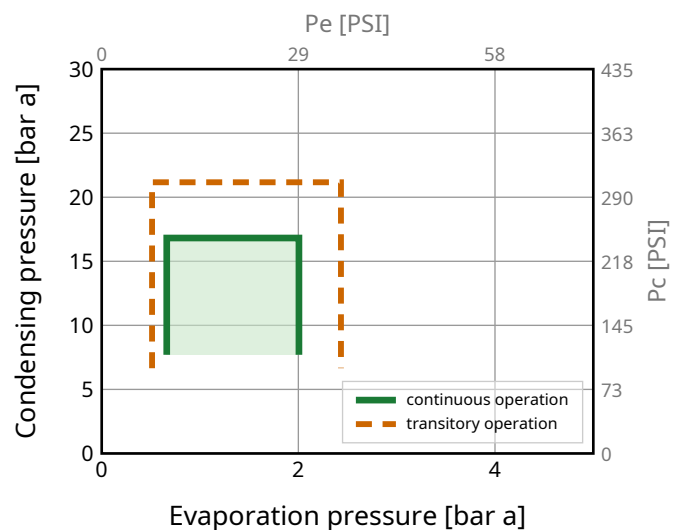
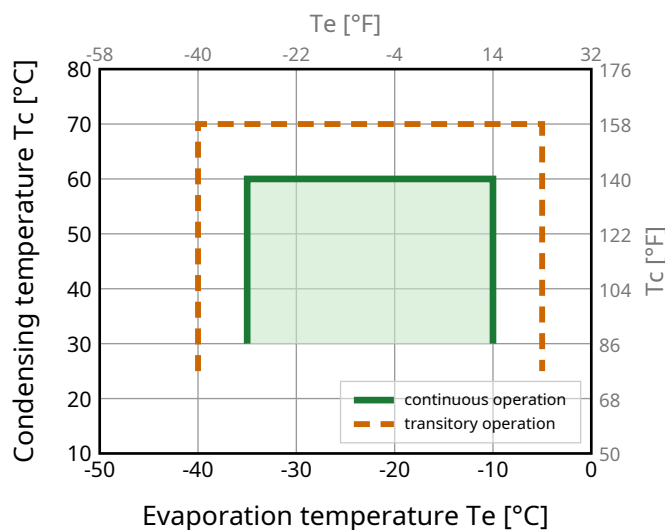
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R134a, 220 V/50 Hz, CSIR, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	219	748	189	1.23	4.20	178	1.30	4.25	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	162	551	139	0.95	3.25	170	1.28	3.85	CECOMAF LBP
-35 -31	40 104	20 68	40 104	115	391	99	0.91	3.10	126	1.18	2.51	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	182	620	156	1.03	3.50	177	1.30	4.76	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	246	839	211	1.43	4.88	172	1.29	4.77	AHAM LBP
-25 -13	45 113	32 89.6	45 113	194	661	167	1.16	3.95	167	1.28	4.19	opt LBP

Performance Tables

R134a, 220 V/50 Hz, CSIR, 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]
-35	-31	107	366	92	0.84	2.88	127	1.19	2.31
-30	-22	146	497	125	1.00	3.41	146	1.23	3.14
-25	-13	194	661	167	1.16	3.95	167	1.28	4.19
-20	-4	253	863	217	1.33	4.54	190	1.34	5.48
-15	5	324	1106	279	1.51	5.16	214	1.42	7.05
-10	14	409	1396	352	1.71	5.84	239	1.51	8.93

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

-35	-31	87	297	75	0.69	2.34	127	1.18	2.06
-30	-22	120	409	103	0.82	2.79	146	1.22	2.85
-25	-13	162	551	139	0.95	3.25	170	1.28	3.85
-20	-4	213	726	183	1.09	3.72	195	1.36	5.09
-15	5	275	939	237	1.24	4.22	223	1.45	6.61
-10	14	350	1194	301	1.39	4.75	252	1.55	8.44

Model
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Configuration 2

Sales code:
105G6828

Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	187-254 V
Starting torque	LST
Approvals	VDE
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	9 A
RLA (rated load amps / 1s/ U(N))	1.6 A
Cut in current (U(N))	12.8 A

Ambient/ machine room temperatures minimum /maximum

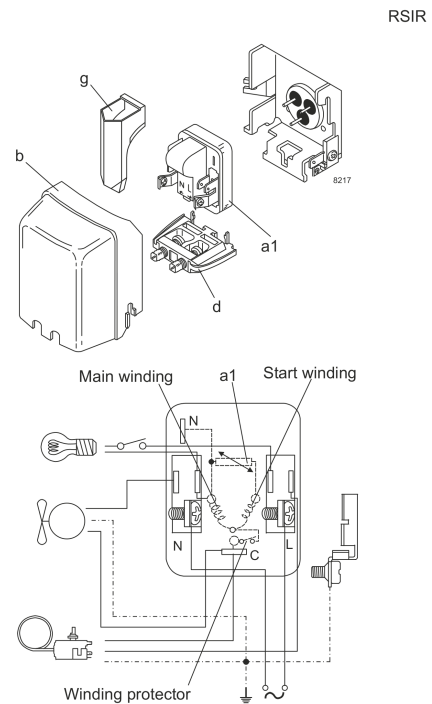
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System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

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

b plastic cover 103N2011

d cord relief 103N1010

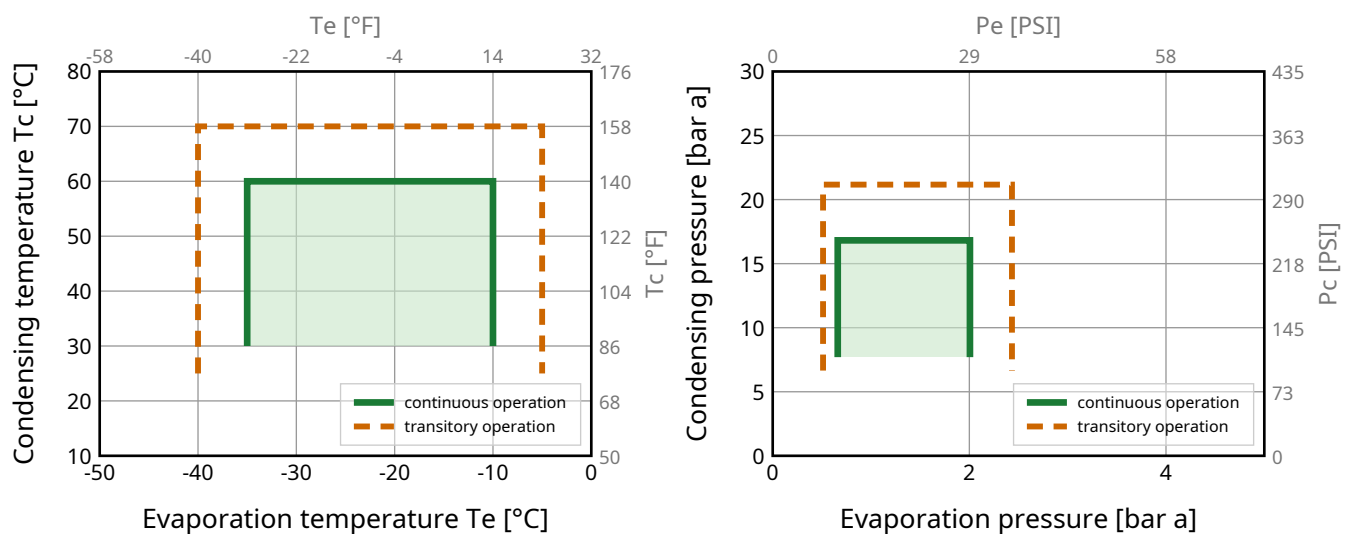
g protection screen for PTC 103N0476

Alternative components

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

b plastic cover 103N2010

Operation Pressure Range



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Configuration 2

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R134a, 220 V/50 Hz, RSIR, static

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[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
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