

Model
NL7FT

Sales code:
105G6718

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NL7FT

-	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	CCC, EAC, VDE	CCC, EAC, 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

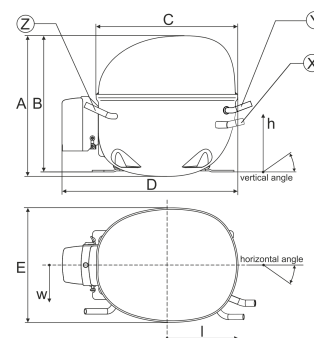
Oil type	POE	Winding resistance main	11 Ohm
Oil viscosity	32cSt	Winding resistance aux	13 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

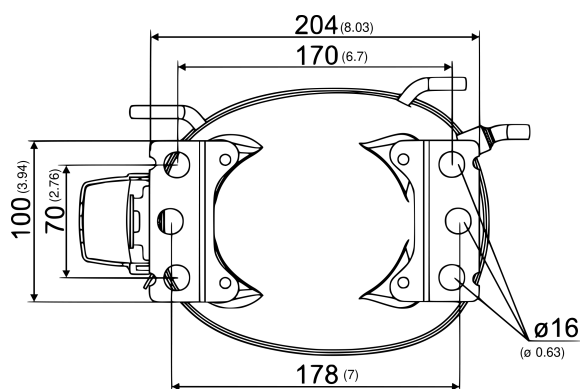
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

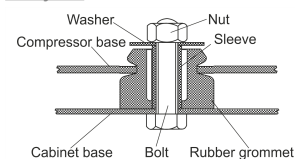


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

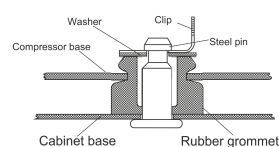
Mounting Accessories



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	CCC, EAC, VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	8.7 A
Cut in current (U(N))	10.9 A

Ambient/ machine room temperatures minimum /maximum

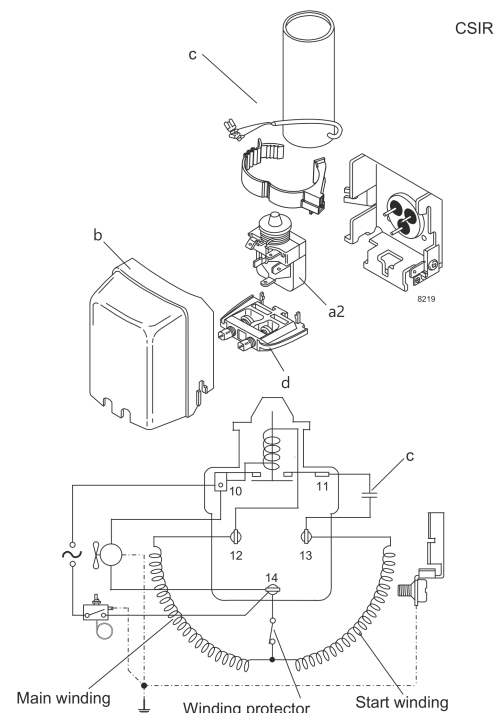
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

a2 current relay 117U6001

c start capacitor (80µF) 117U5015

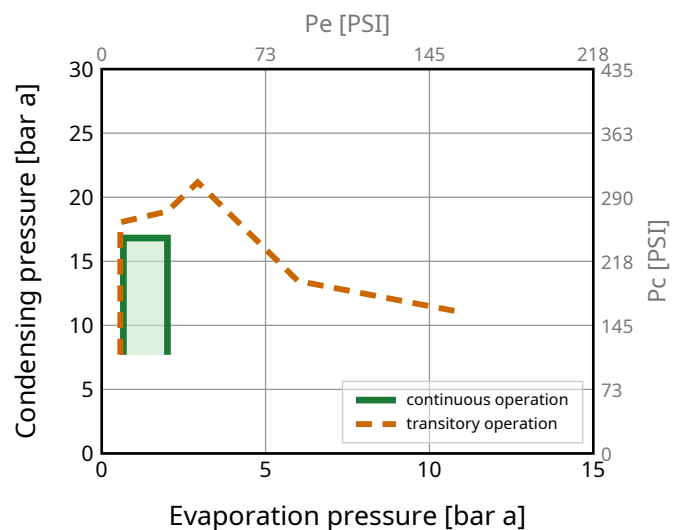
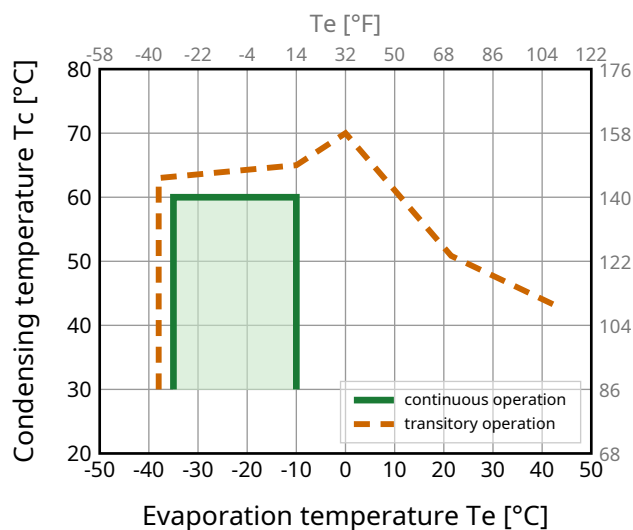
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 1

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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	186	634	160	1.22	4.15	153	0.96	3.60	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	136	465	117	0.94	3.21	145	0.94	3.25	CECOMAF LBP
-35 -31	40 104	20 68	40 104	94	321	81	0.88	3.01	107	0.84	2.06	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	155	528	133	1.02	3.48	152	0.94	4.06	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	208	709	179	1.42	4.83	147	0.94	4.03	AHAM LBP
-35 -31	45 113	32 89.6	45 113	89	303	76	0.82	2.81	108	0.84	1.91	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	89	303	76	0.82	2.81	108	0.84	1.91
-30	-22	122	418	105	0.99	3.38	124	0.87	2.64
-25	-13	164	560	141	1.15	3.93	143	0.92	3.55
-20	-4	215	735	185	1.31	4.48	164	0.99	4.67
-15	5	277	946	238	1.49	5.08	186	1.07	6.03
-10	14	351	1197	302	1.68	5.75	208	1.16	7.66

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

-35	-31	71	242	61	0.66	2.25	108	0.86	1.69
-30	-22	100	342	86	0.81	2.75	124	0.88	2.38
-25	-13	136	465	117	0.94	3.21	145	0.94	3.25
-20	-4	181	616	155	1.07	3.66	168	1.01	4.32
-15	5	235	800	202	1.21	4.14	194	1.10	5.63
-10	14	299	1022	257	1.36	4.65	220	1.21	7.22

Model

NL7FT

Configuration 2

Sales code:

105G6718

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	CCC, EAC, VDE
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	8.7 A
Cut in current (U(N))	10.9 A

Ambient/ machine room temperatures minimum /maximum

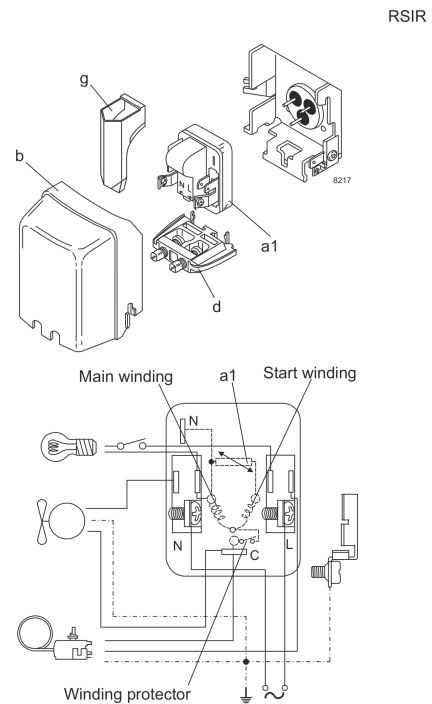
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System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

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

b plastic cover 103N2010

d cord relief 103N1010

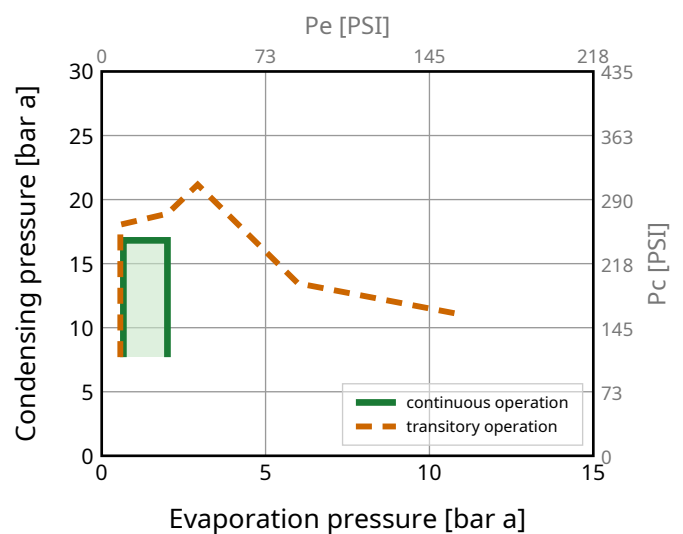
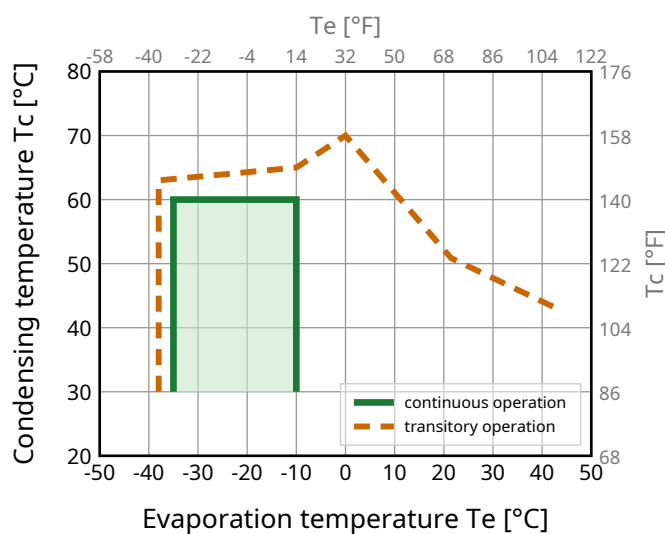
g protection screen for PTC 103N0476

Alternative components

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

b plastic cover 103N2011

Operation Pressure Range



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Configuration 2

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