

Model

NL10FT

Sales code:

105G6829

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	10.09 cm3 / 0.62cu.in
Compressors on pallet	80



General – Configurations With NL10FT

-	Conf. 1	Conf. 2
Motor configuration	RSIR	CSIR
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, CCC, EAC	VDE, CCC, EAC
Starting torque	LST	HST
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

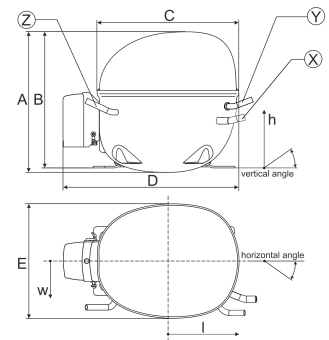
Oil type	POE	Winding resistance main	8.200 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.70 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

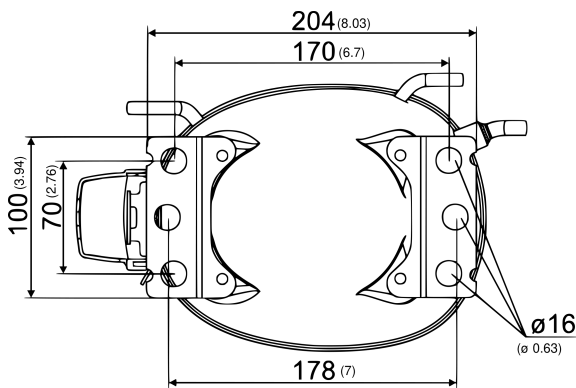
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	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

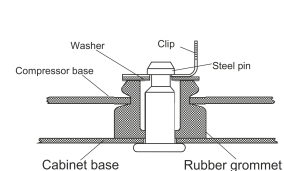
Mounting Accessories



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	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	187-254 V
Starting torque	LST
Approvals	VDE, CCC, EAC
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	10.4 A
RLA (rated load amps / 1s/ U(N))	1.8 A
Cut in current (U(N))	10.4 A

Ambient/ machine room temperatures minimum /maximum

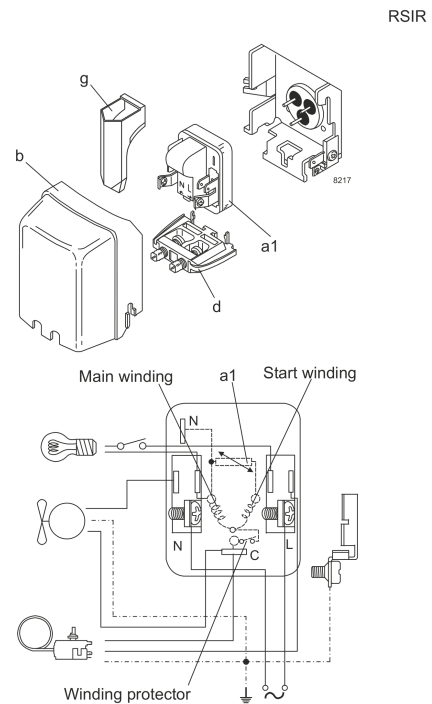
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

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

b plastic cover 103N2010

d cord relief 103N1010

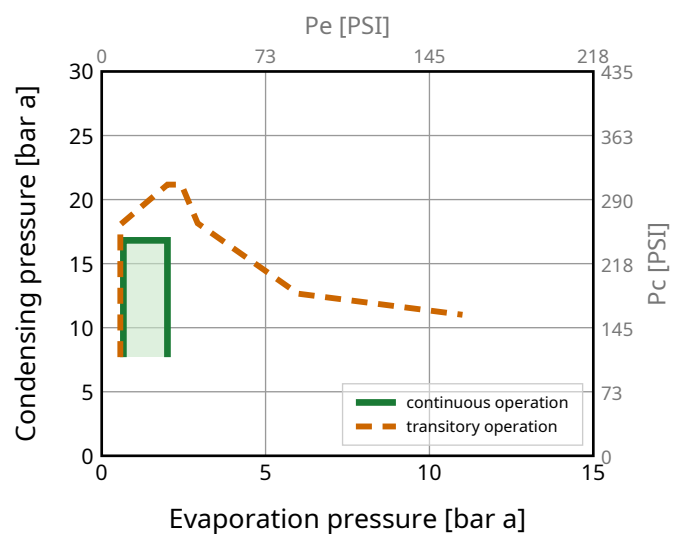
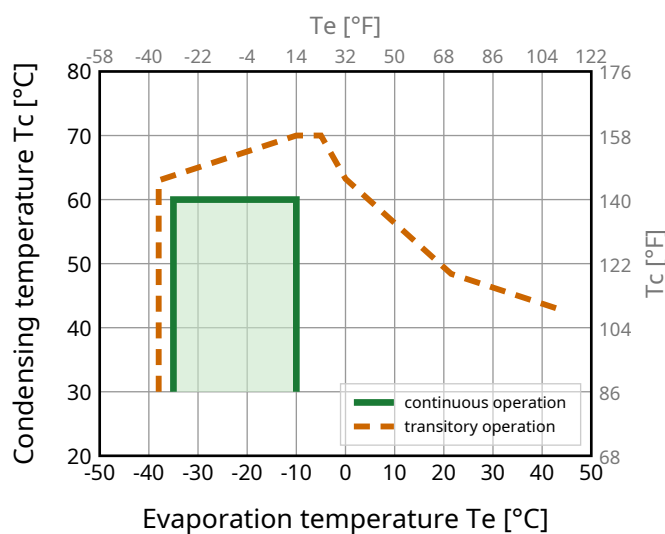
g protection screen for PTC 103N0476

Alternative components

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

b plastic cover 103N2011

Operation Pressure Range



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Configuration 1

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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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	284	968	244	1.25	4.26	227	1.54	5.51	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	210	718	181	0.98	3.34	215	1.50	5.02	CECOMAF LBP
-35 -31	40 104	20 68	40 104	152	520	131	0.96	3.26	159	1.36	3.33	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	232	793	200	1.02	3.48	228	1.55	6.10	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	314	1070	270	1.44	4.91	218	1.52	6.09	AHAM LBP
-25 -13	45 113	32 89.6	45 113	249	849	214	1.17	3.97	214	1.50	5.38	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]
-35	-31	142	484	122	0.88	3.00	162	1.36	3.06
-30	-22	190	647	163	1.03	3.50	185	1.42	4.09
-25	-13	249	849	214	1.17	3.97	214	1.50	5.38
-20	-4	321	1094	276	1.31	4.46	245	1.61	6.95
-15	5	407	1389	350	1.47	5.01	278	1.72	8.86
-10	14	510	1740	439	1.66	5.67	307	1.83	11.14

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

-35	-31	115	392	99	0.72	2.46	159	1.35	2.72
-30	-22	158	538	136	0.86	2.92	184	1.41	3.75
-25	-13	210	718	181	0.98	3.34	215	1.50	5.02
-20	-4	274	937	236	1.10	3.75	249	1.62	6.57
-15	5	352	1200	302	1.24	4.22	284	1.74	8.44
-10	14	444	1514	382	1.40	4.78	316	1.87	10.70

Model
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Configuration 2

Sales code:
105G6829

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, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	10.4 A
RLA (rated load amps / 1s/ U(N))	1.8 A
Cut in current (U(N))	10.4 A

Ambient/ machine room temperatures minimum /maximum

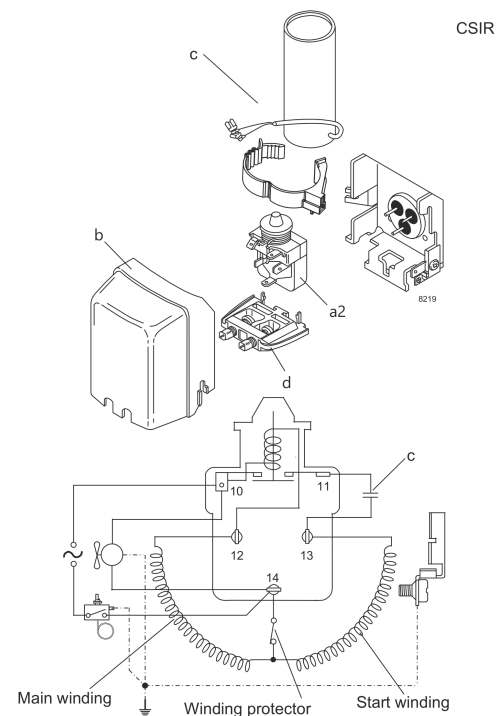
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Electrical Accessories / Wiring Diagram



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Components

a2 assy. relay 117U6002

c start capacitor (80µF) 117U5015

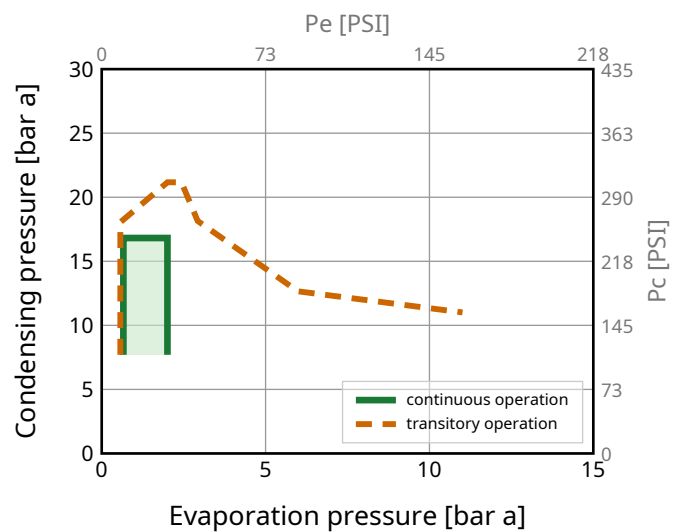
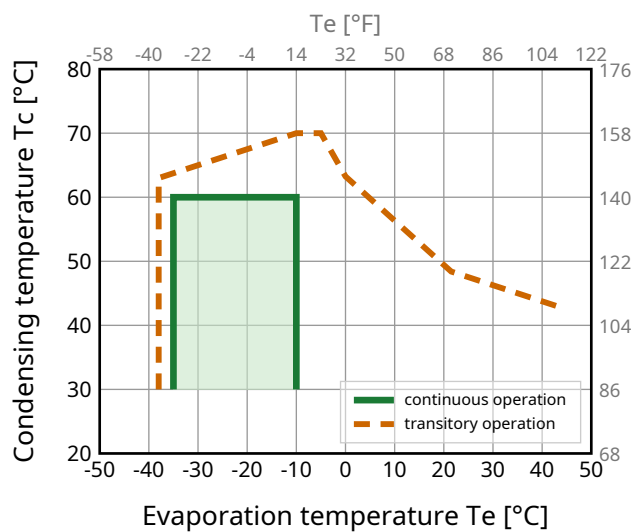
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 2

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R134a, 220 V/50 Hz, CSIR, static

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