Single
Packs

Single Pack NL9FT 220-240V 50Hz CSIR

Single pack code number: **195B4096**

Position	Title	Code	Amount
1	Compressor NL9FT	105G6828	1
2	Starting relay	117U6015	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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

Model
NL9FT

Sales code:
105G6828

Compressor Design

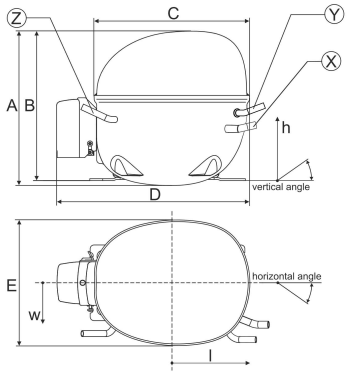
Oil type	**POE**	Winding resistance main	**8.9 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12 Ohm**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. winding temp.	**125 °C**
Motor protection	**internal**	Max. discharge temp.	**130°C / 266°F**

Compressor Dimensions

Housing

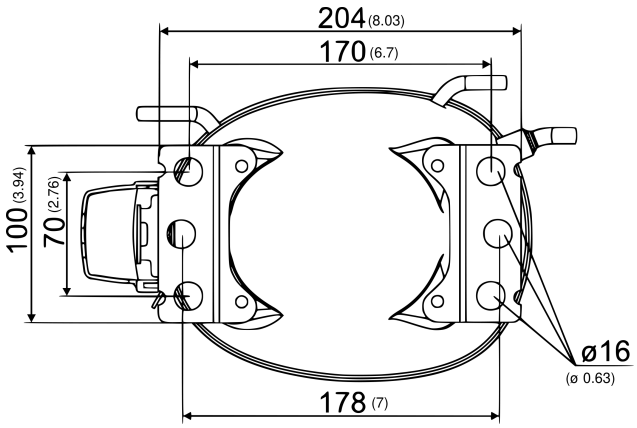
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



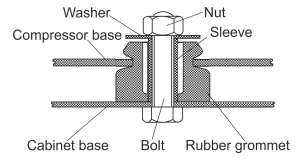
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

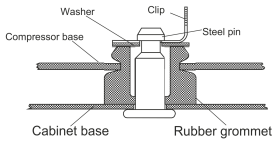


Dimensions in mm [in]

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
NL9FT Configuration 1

Sales code:
105G6828

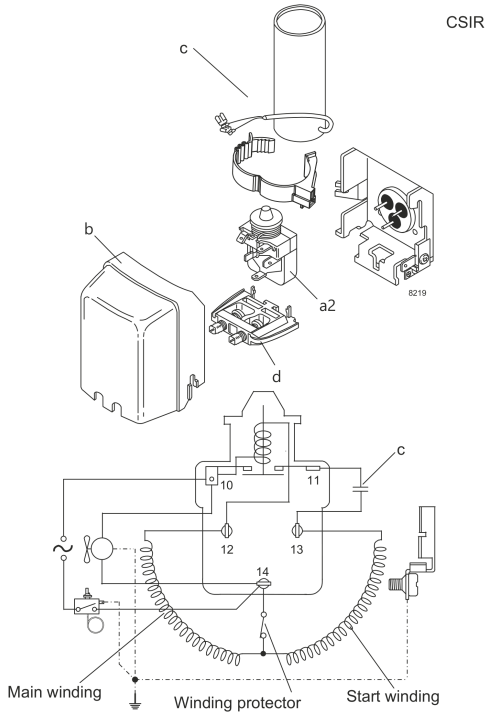
Configuration

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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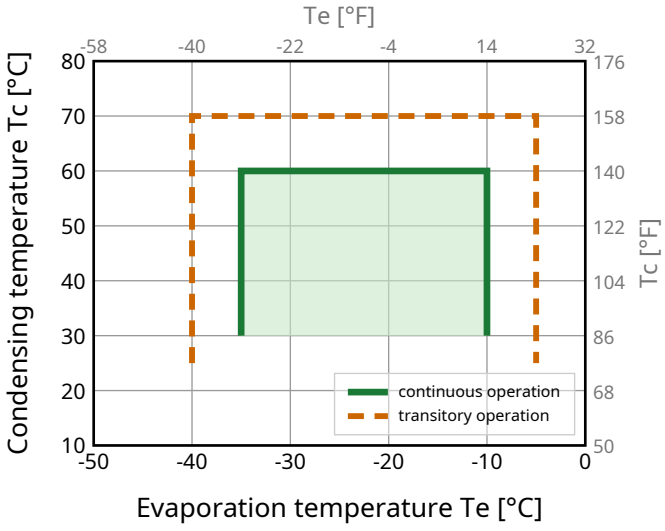
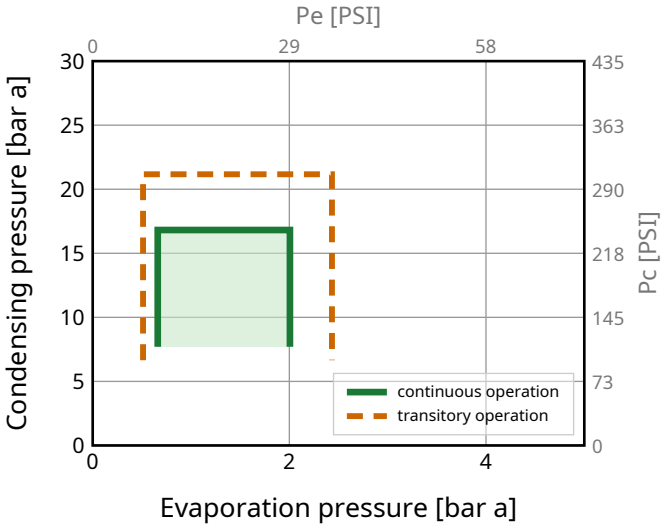
Components
a2 relay 117U6015
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NL9FT Configuration 1 **105G6828**

Standard Conditions

R134a, 220 V/50 Hz, CSIR, 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]	
-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**
-35 -31	45 113	32 89.6	45 113	**107**	366	92	**0.84**	2.88	127	1.19	2.31	**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	ṁ
[°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
NL9FT Configuration 2

Sales code:
105G6828

Configuration

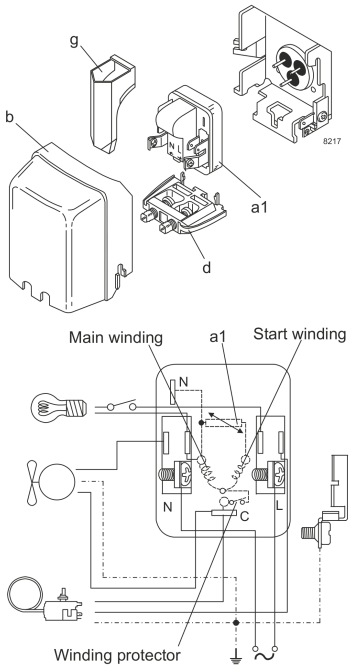
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**9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

RSIR



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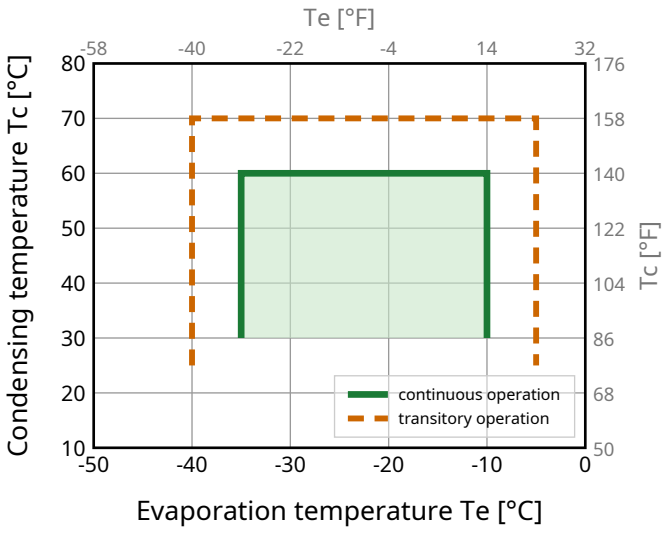
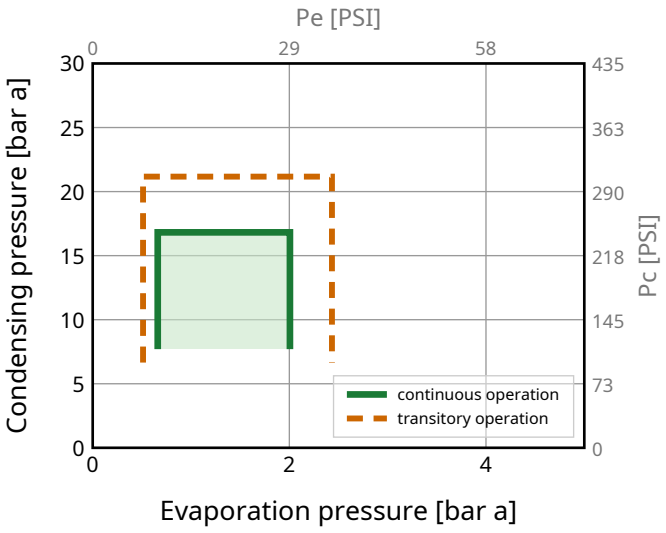
Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0018
b plastic cover 103N2011
d cord relief 103N1010
g protection screen for PTC 103N0476

Alternative components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
b plastic cover 103N2010

Operation Pressure Range





Model Sales code:

NL9FT Configuration 2 **105G6828**

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]	
-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**
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-35 -31	45 113	32 89.6	45 113	**107**	366	92	**0.84**	2.88	127	1.19	2.31	**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	ṁ
[°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
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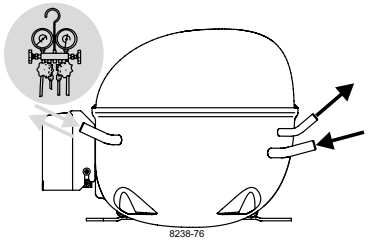
-10	14	**350**	1194	301	**1.39**	4.75	252	1.55	8.44



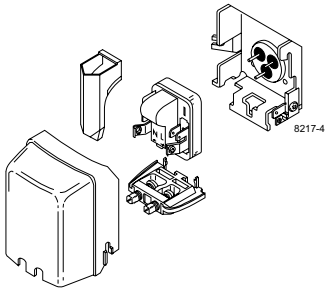
NL Compressors

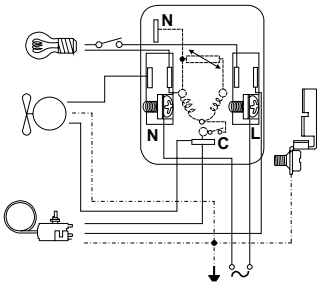
SECOP

Keep electrical equipment clear from oil, chemicals, and water

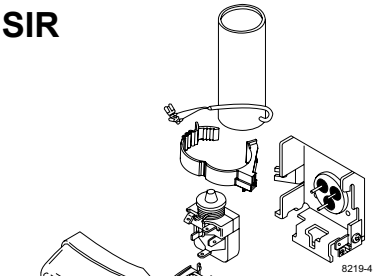
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

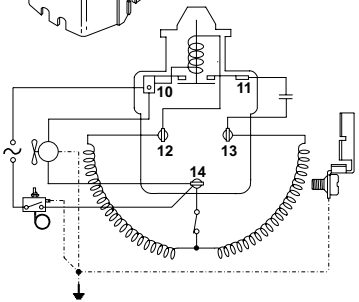
RSIR



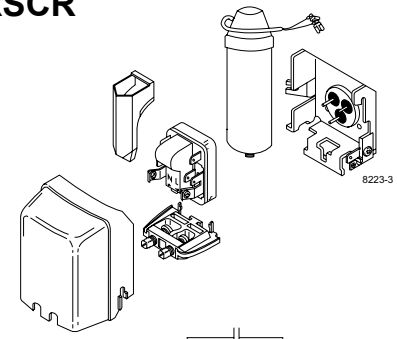


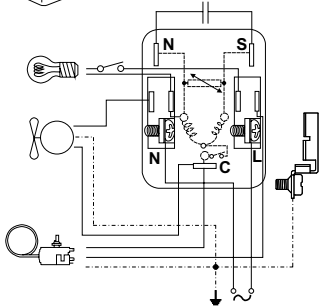
CSIR

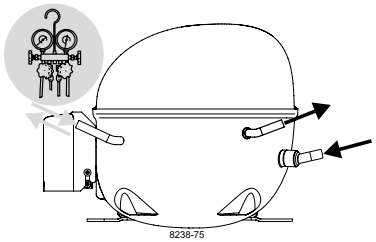




RSCR







NL Compressors

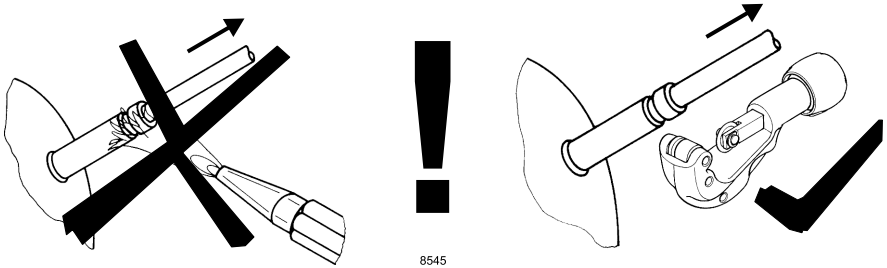
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

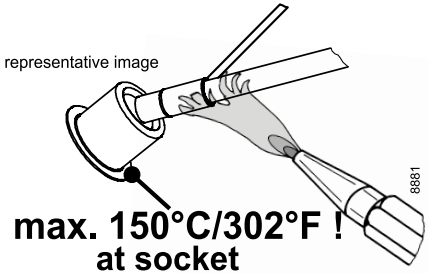
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Brazing on Suction Connectors (Direct Intake)

representative image



! max. 150°C/302°F ! at socket

brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
Brazing on Suction Connectors (Compressors with Direct Suction Intake)

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**