Singolo
Imballi

Single Pack NL6FT 220-240V 50/60Hz RSIR

Codice Imballo Singolo: **195B4461**

Posizione	Titolo	Codice	Quantità
1	Compressor NL6FT	105G6628	1
2	PTC starting device (220V, 25Ohm, 6.3mm)	103N0011	1
3	Protection screen for PTC	103N0476	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
NL6FT

Sales code:
105G6628

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**6.13 cm3 / 0.37cu.in**
Compressors on pallet	**80**

General – Configurations With NL6FT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	RSIR	RSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	198-254 V	187-254 V	198-254 V
Approvals	VDE, EAC	VDE, EAC	VDE, EAC	VDE, EAC
Starting torque	HST	HST	LST	LST
Refrigerant	R134a	R134a	R134a	R134a
Application	LBP	LBP	LBP	LBP

Application Notes

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

Model
NL6FT

Sales code:
105G6628

Compressor Design

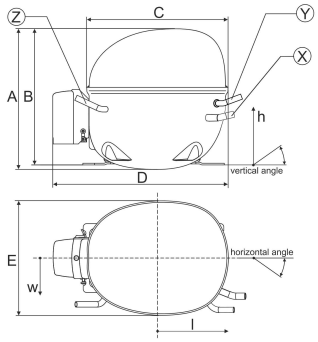
Oil type	**POE**	Winding resistance main	**12.6 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**12.4 Ohm**
Oil quantity	**265 / 8.96fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

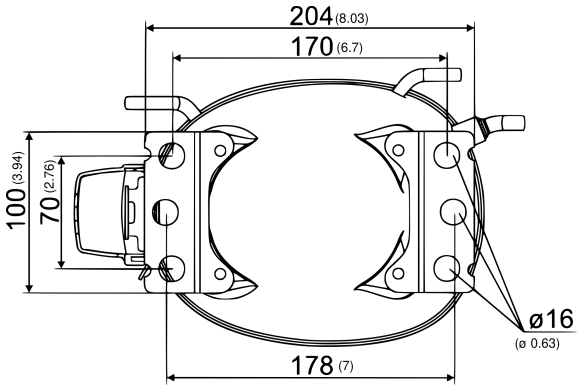
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**230mm / 9.06in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



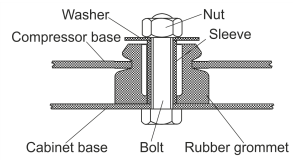
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

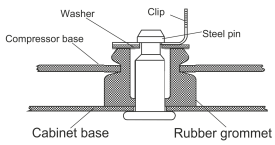


Dimensions in mm [in]

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
NL6FT Configuration 1

Sales code:
105G6628

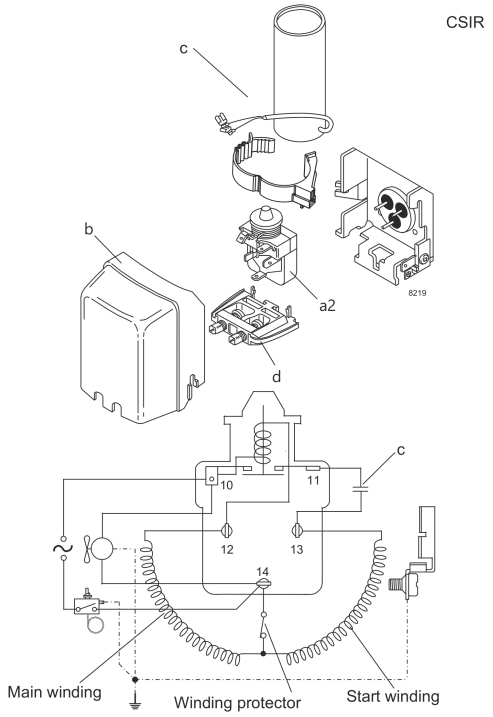
Configuration

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, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**7.5 A**
RLA (rated load amps / 1s/ U(N))	**1.2 A**
Cut in current (U(N))	**10.5 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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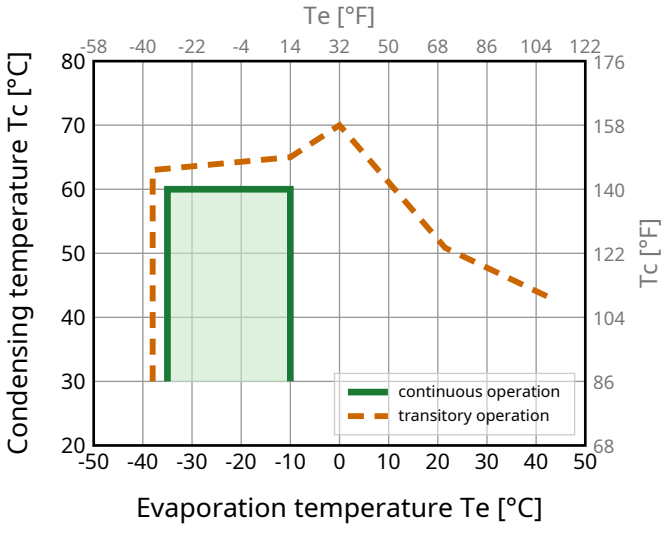
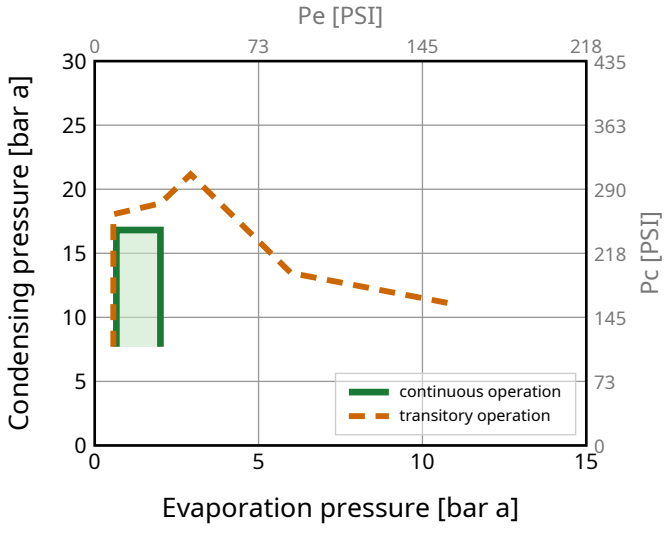
Components
a2 relay 117U6000
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NL6FT Configuration 1 **105G6628**

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	**156**	533	134	**1.21**	4.11	130	0.86	3.03	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**115**	392	99	**0.93**	3.18	123	0.84	2.74	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**80**	273	69	**0.87**	2.98	92	0.77	1.75	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**130**	443	112	**1.01**	3.44	129	0.87	3.40	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**176**	601	151	**1.41**	4.82	125	0.86	3.42	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**75**	255	64	**0.81**	2.75	93	0.78	1.61	**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	**75**	255	64	**0.81**	2.75	93	0.78	1.61
-30	-22	**103**	352	89	**0.97**	3.32	106	0.81	2.22
-25	-13	**138**	472	119	**1.14**	3.89	121	0.85	2.99
-20	-4	**182**	620	156	**1.31**	4.47	138	0.91	3.94
-15	5	**234**	798	201	**1.49**	5.10	156	0.96	5.09
-10	14	**296**	1010	255	**1.69**	5.77	175	1.03	6.46

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

-35	-31	**60**	205	52	**0.65**	2.21	93	0.77	1.43
-30	-22	**84**	288	73	**0.79**	2.70	107	0.80	2.01
-25	-13	**115**	392	99	**0.93**	3.18	123	0.84	2.74
-20	-4	**152**	520	131	**1.07**	3.66	142	0.89	3.65
-15	5	**198**	676	170	**1.22**	4.15	163	0.96	4.75
-10	14	**252**	862	217	**1.37**	4.68	184	1.04	6.09

Model
NL6FT Configuration 2

Sales code:
105G6628

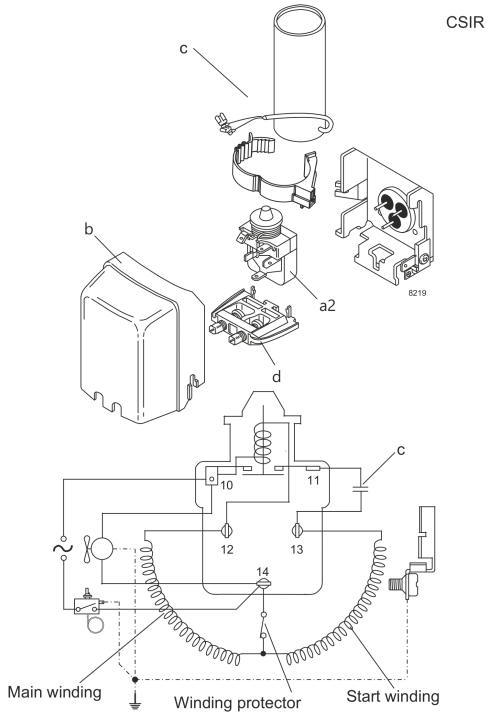
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**7.5 A**
RLA (rated load amps / 1s/ U(N))	**1.2 A**
Cut in current (U(N))	**10.5 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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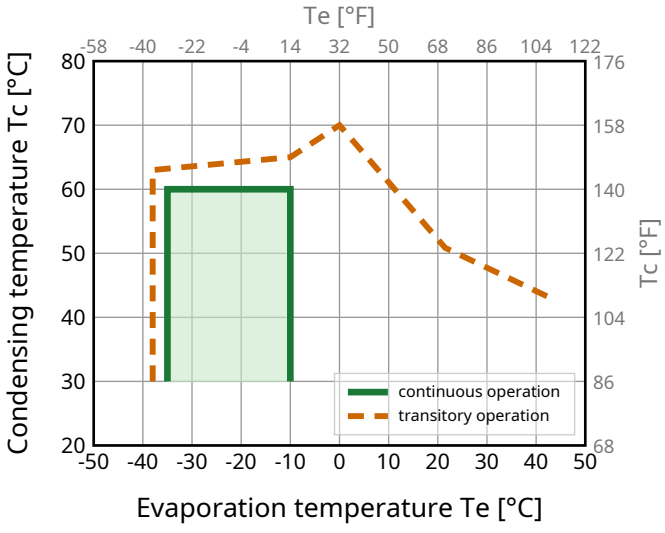
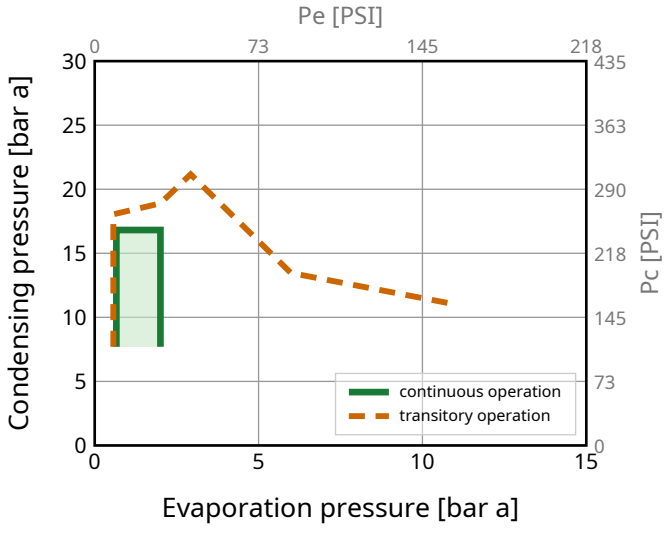
Components
a2 relay 117U6000
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NL6FT Configuration 2 **105G6628**

Standard Conditions

R134a, 220 V/60 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	**161**	550	139	**1.22**	4.15	132	0.91	3.13	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**119**	406	102	**0.94**	3.22	126	0.90	2.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**78**	267	67	**0.91**	3.09	86	0.81	1.71	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**133**	455	115	**1.01**	3.46	132	0.91	3.50	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**180**	615	155	**1.41**	4.81	128	0.91	3.50	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**73**	250	63	**0.84**	2.86	87	0.82	1.58	**opt LBP**

Performance Tables

R134a, 220 V/60 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	**73**	250	63	**0.84**	2.86	87	0.82	1.58
-30	-22	**106**	360	91	**0.99**	3.38	107	0.86	2.28
-25	-13	**142**	486	122	**1.14**	3.90	124	0.90	3.08
-20	-4	**185**	631	159	**1.31**	4.48	141	0.93	4.01
-15	5	**235**	801	202	**1.50**	5.14	156	0.97	5.11
-10	14	**293**	1001	252	**1.72**	5.88	170	1.01	6.41

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

-35	-31	**59**	201	51	**0.68**	2.31	87	0.81	1.40
-30	-22	**87**	298	75	**0.81**	2.78	107	0.85	2.07
-25	-13	**119**	406	102	**0.94**	3.22	126	0.90	2.84
-20	-4	**156**	532	134	**1.08**	3.68	144	0.94	3.73
-15	5	**199**	680	171	**1.23**	4.20	162	0.99	4.78
-10	14	**251**	855	216	**1.40**	4.77	179	1.04	6.04

Model
NL6FT Configuration 3

Sales code:
105G6628

Configuration

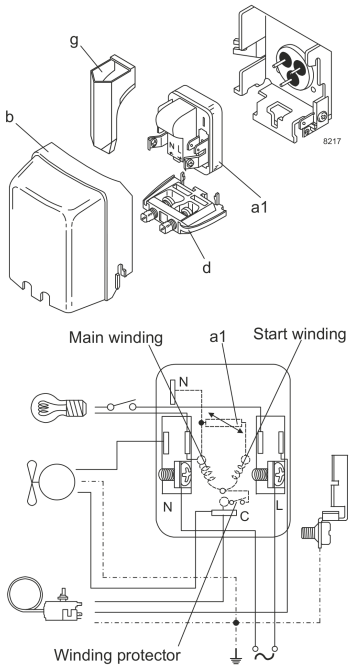
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**7.5 A**
RLA (rated load amps / 1s/ U(N))	**1.2 A**
Cut in current (U(N))	**10.5 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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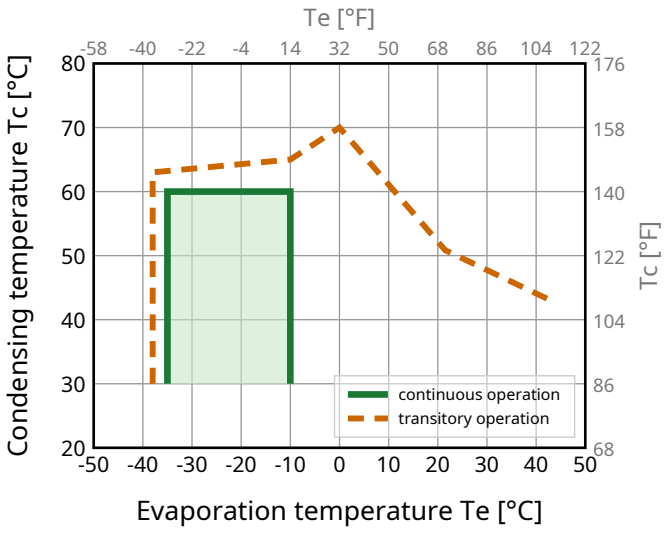
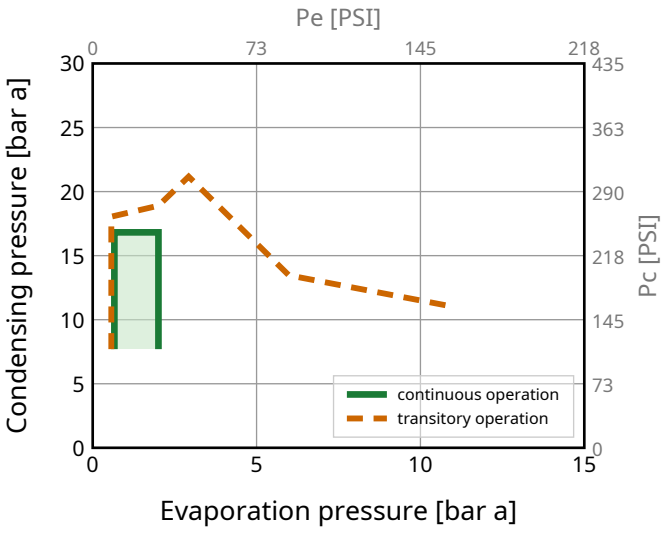
Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0018
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476

Alternative components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NL6FT Configuration 3 **105G6628**

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	**156**	533	134	**1.21**	4.11	130	0.86	3.03	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**115**	392	99	**0.93**	3.18	123	0.84	2.74	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**80**	273	69	**0.87**	2.98	92	0.77	1.75	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**130**	443	112	**1.01**	3.44	129	0.87	3.40	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**176**	601	151	**1.41**	4.82	125	0.86	3.42	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**75**	255	64	**0.81**	2.75	93	0.78	1.61	**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	**75**	255	64	**0.81**	2.75	93	0.78	1.61
-30	-22	**103**	352	89	**0.97**	3.32	106	0.81	2.22
-25	-13	**138**	472	119	**1.14**	3.89	121	0.85	2.99
-20	-4	**182**	620	156	**1.31**	4.47	138	0.91	3.94
-15	5	**234**	798	201	**1.49**	5.10	156	0.96	5.09
-10	14	**296**	1010	255	**1.69**	5.77	175	1.03	6.46

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

-35	-31	**60**	205	52	**0.65**	2.21	93	0.77	1.43
-30	-22	**84**	288	73	**0.79**	2.70	107	0.80	2.01
-25	-13	**115**	392	99	**0.93**	3.18	123	0.84	2.74
-20	-4	**152**	520	131	**1.07**	3.66	142	0.89	3.65
-15	5	**198**	676	170	**1.22**	4.15	163	0.96	4.75
-10	14	**252**	862	217	**1.37**	4.68	184	1.04	6.09

Model
NL6FT Configuration 4

Sales code:
105G6628

Configuration

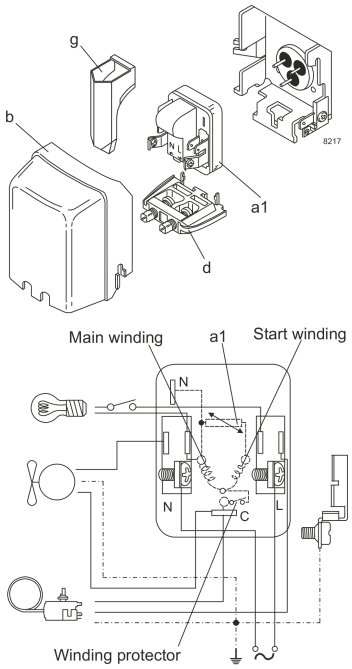
Motor configuration	**RSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**7.5 A**
RLA (rated load amps / 1s/ U(N))	**1.2 A**
Cut in current (U(N))	**10.5 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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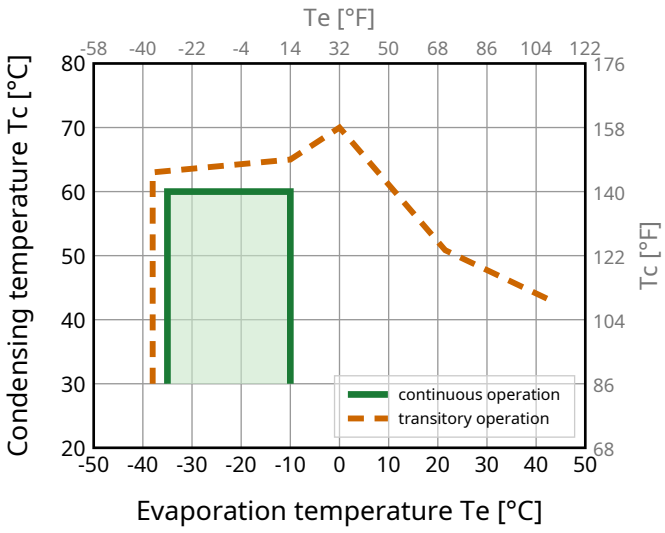
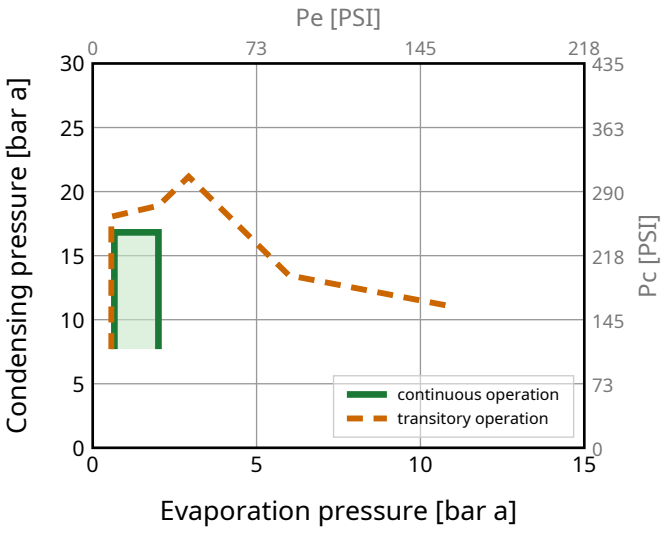
Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0018
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476

Alternative components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NL6FT Configuration 4 **105G6628**

Standard Conditions

R134a, 220 V/60 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	**161**	550	139	**1.22**	4.15	132	0.91	3.13	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**119**	406	102	**0.94**	3.22	126	0.90	2.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**78**	267	67	**0.91**	3.09	86	0.81	1.71	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**133**	455	115	**1.01**	3.46	132	0.91	3.50	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**180**	615	155	**1.41**	4.81	128	0.91	3.50	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**73**	250	63	**0.84**	2.86	87	0.82	1.58	**opt LBP**

Performance Tables

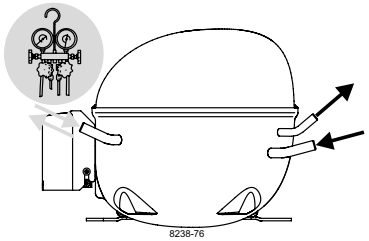
R134a, 220 V/60 Hz, RSIR, static

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	**73**	250	63	**0.84**	2.86	87	0.82	1.58
-30	-22	**106**	360	91	**0.99**	3.38	107	0.86	2.28
-25	-13	**142**	486	122	**1.14**	3.90	124	0.90	3.08
-20	-4	**185**	631	159	**1.31**	4.48	141	0.93	4.01
-15	5	**235**	801	202	**1.50**	5.14	156	0.97	5.11
-10	14	**293**	1001	252	**1.72**	5.88	170	1.01	6.41

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

-35	-31	**59**	201	51	**0.68**	2.31	87	0.81	1.40
-30	-22	**87**	298	75	**0.81**	2.78	107	0.85	2.07
-25	-13	**119**	406	102	**0.94**	3.22	126	0.90	2.84
-20	-4	**156**	532	134	**1.08**	3.68	144	0.94	3.73
-15	5	**199**	680	171	**1.23**	4.20	162	0.99	4.78
-10	14	**251**	855	216	**1.40**	4.77	179	1.04	6.04



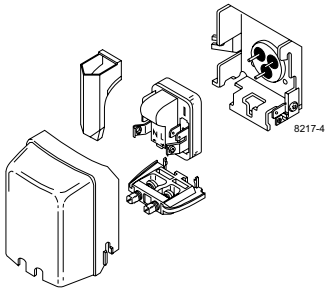
NL Compressors

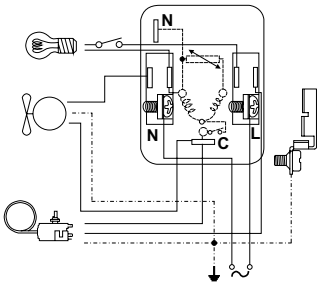
SECOP

Keep electrical equipment clear from oil, chemicals, and water

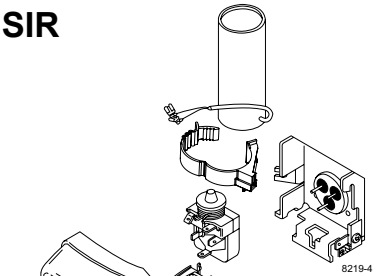
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

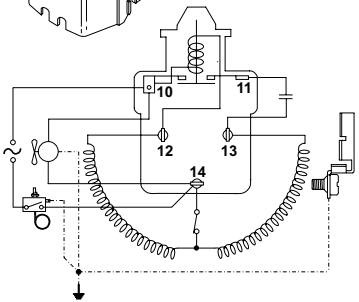
RSIR



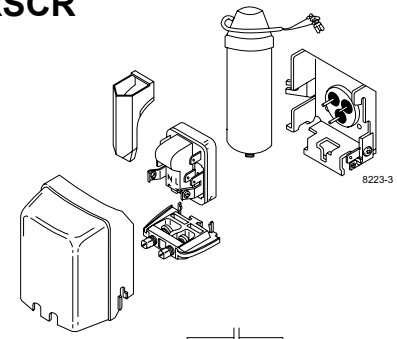


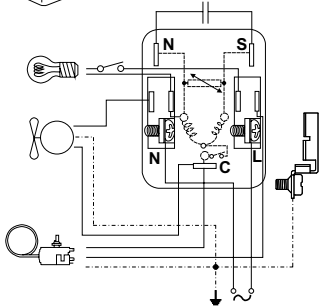
CSIR

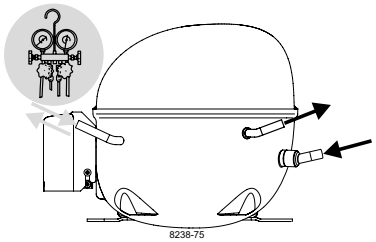




RSCR







NL Compressors

SECOP

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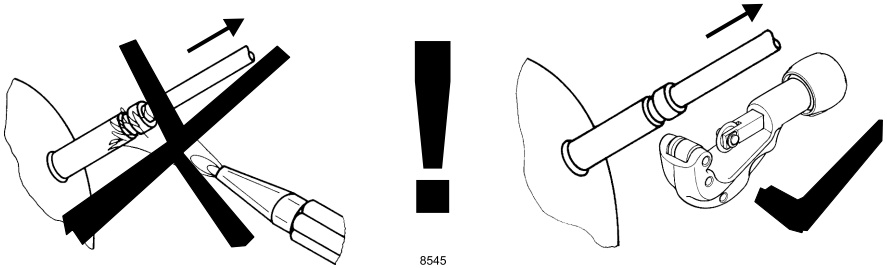
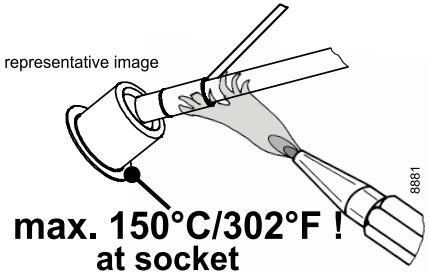
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**