Single
Packs

SECOP

Single Pack NL10FT 220-240V 50Hz RSIR

Single pack code number: **195B4239**

Position	Title	Code	Amount
1	Compressor NL10FT	105G6829	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

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

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

Model
NL10FT

Sales code:
105G6829

Compressor Design

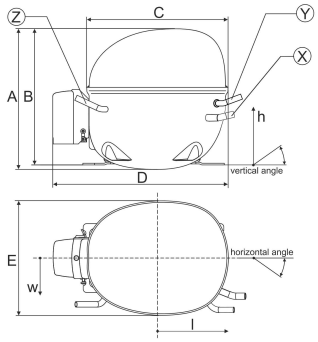
Oil type	**POE**	Winding resistance main	**8.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14.7 Ohm**
Oil quantity	**300 / 10.14fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

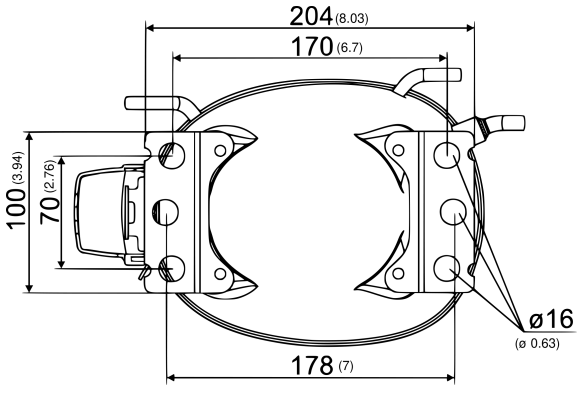
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



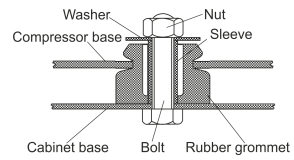
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-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

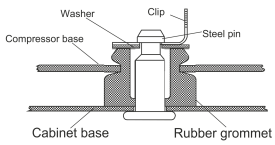


Dimensions in mm [in]

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
NL10FT Configuration 1

Sales code:
105G6829

Configuration

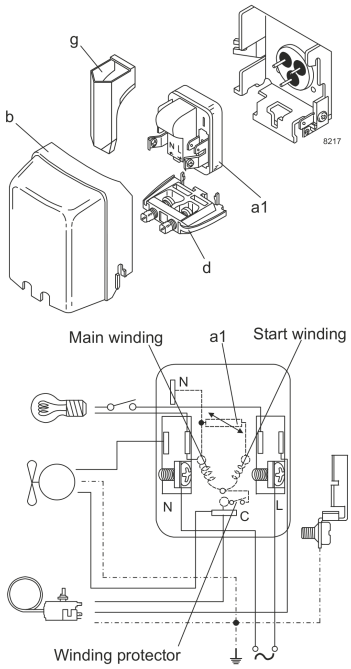
Motor configuration	**RSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE, CCC, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/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

RSIR

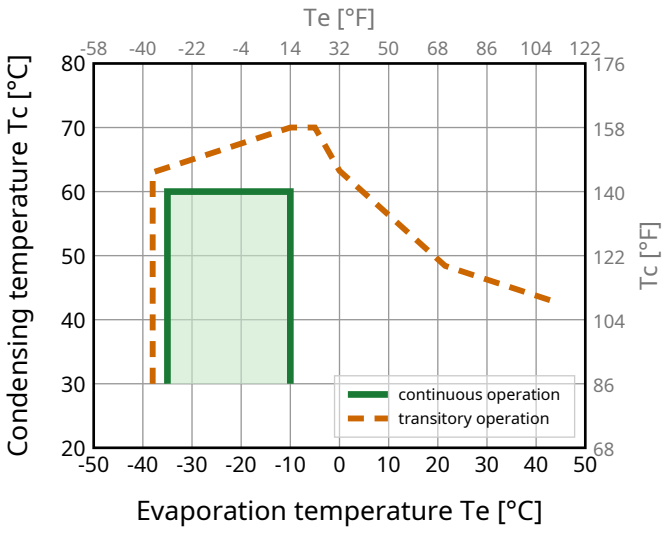


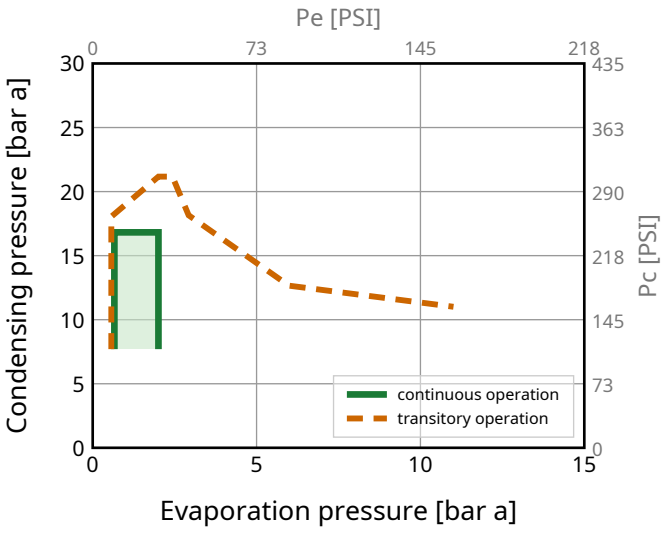
View full size

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
NL10FT Configuration 1

Sales code:
105G6829

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	**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**
-35 -31	45 113	32 89.6	45 113	**142**	484	122	**0.88**	3.00	162	1.36	3.06	**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	**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
NL10FT Configuration 2

Sales code:
105G6829

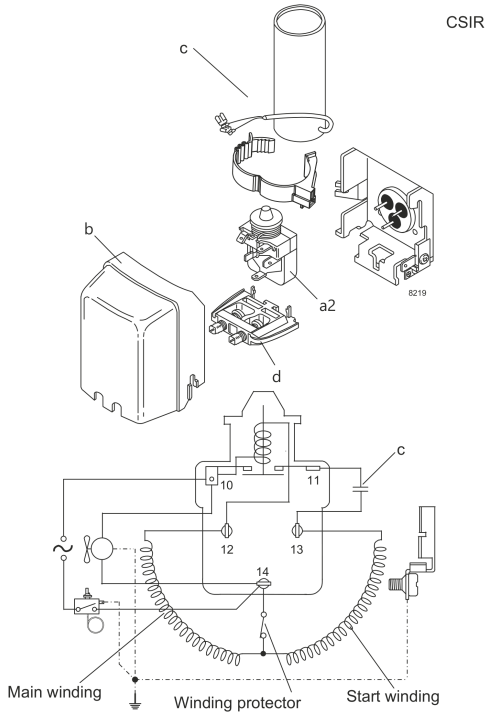
Configuration

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
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

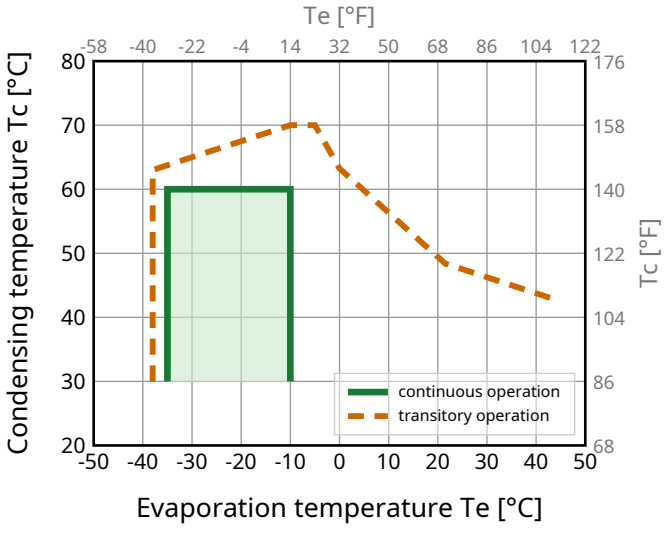


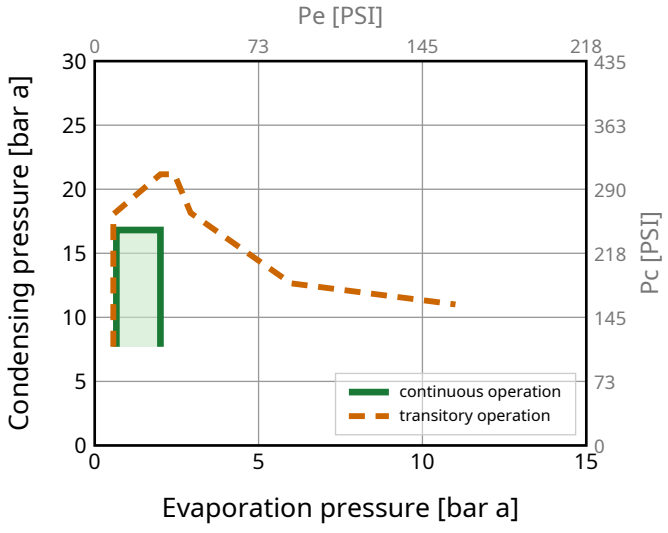
View full size

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





Model
NL10FT Configuration 2

Sales code:
105G6829

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	**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**
-35 -31	45 113	32 89.6	45 113	**142**	484	122	**0.88**	3.00	162	1.36	3.06	**opt LBP**

Performance Tables

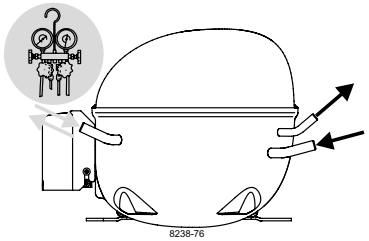
R134a, 220 V/50 Hz, CSIR, static

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	**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



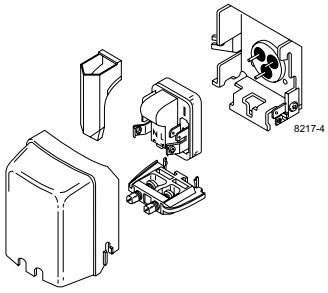
NL Compressors

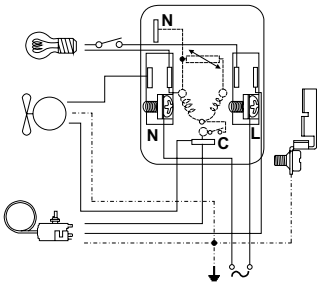
SECOP

Keep electrical equipment clear from oil, chemicals, and water

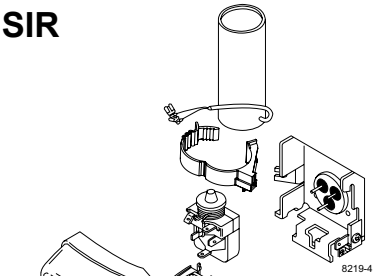
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

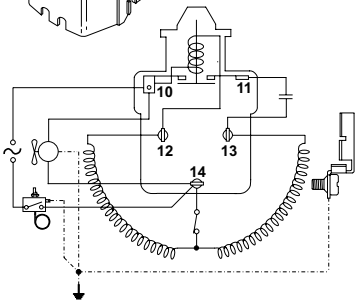
RSIR



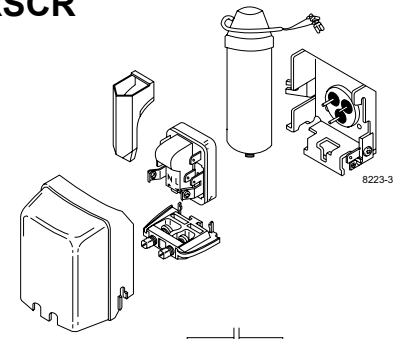


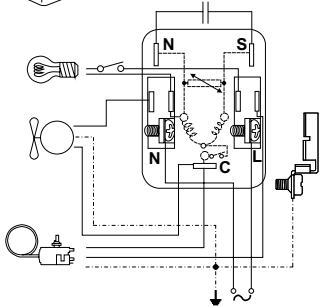
CSIR

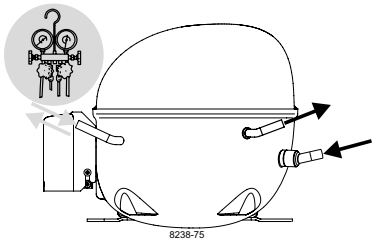




RSCR







NL Compressors

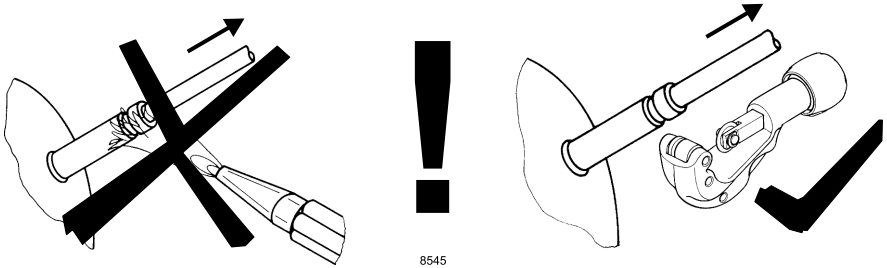
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

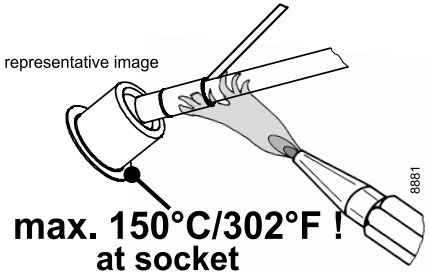
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**