Single
Packs

Single Pack NL9CLX 220-240V 50Hz CSIR

Single pack code number: **195B4564**

Position	Title	Code	Amount
1	Compressor NL9CLX	105F3802	1
2	Starting relay	117U6016	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2011	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NL9CLX

Sales code:
105F3802

Compressor Data

Refrigerant(s)	**R404A**
Refr. charge - tech. limit	**600g / 21.16oz**
Weight	**10.40 kg / 22.93lbs**
Displacement	**8.35 cm3 / 0.51cu.in**
Compressors on pallet	**80**

General – Configurations With NL9CLX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC
Starting torque	HST
Refrigerant	R404A
Application	LBP

Application Notes

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

Model
NL9CLX

Sales code:
105F3802

Compressor Design

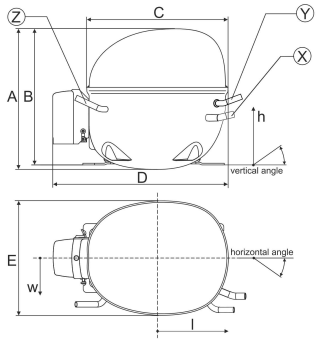
Oil type	**POE**	Winding resistance main	**6.1 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**16 Ohm**
Oil quantity	**300 / 10.14fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,310 cm3 / 78.11fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

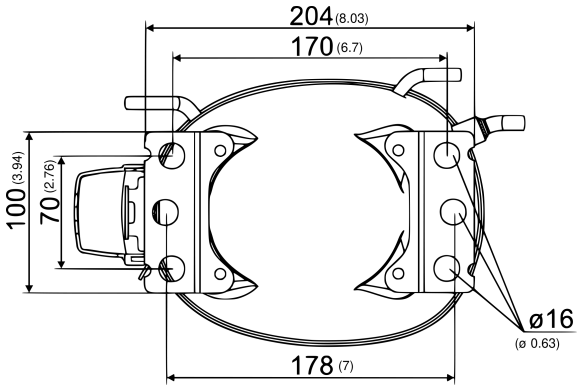
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



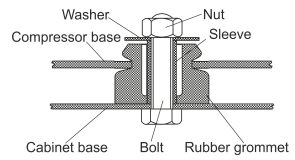
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

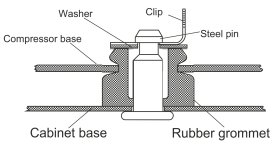


Dimensions in mm [in]

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
NL9CLX Configuration 1

Sales code:
105F3802

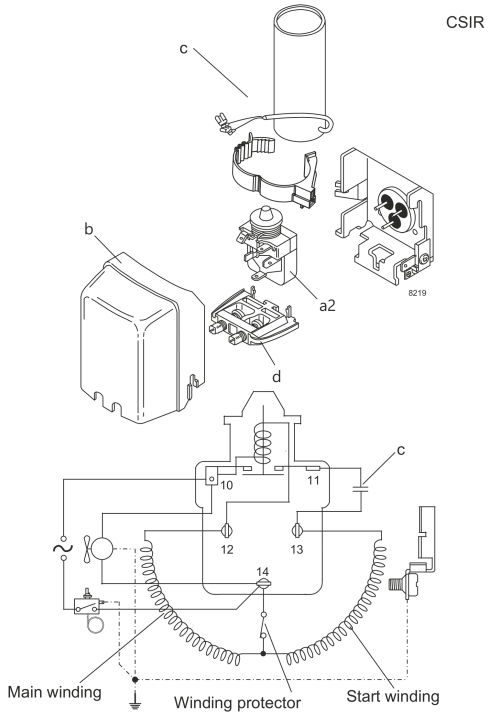
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.7 A**
RLA (rated load amps / 1s/ U(N))	**2.5 A**
Cut in current (U(N))	**13.7 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
fan 3m/s

Electrical Accessories / Wiring Diagram

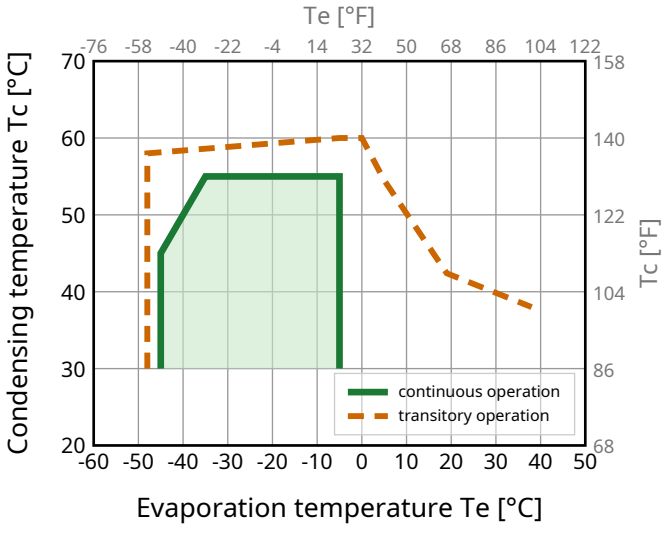


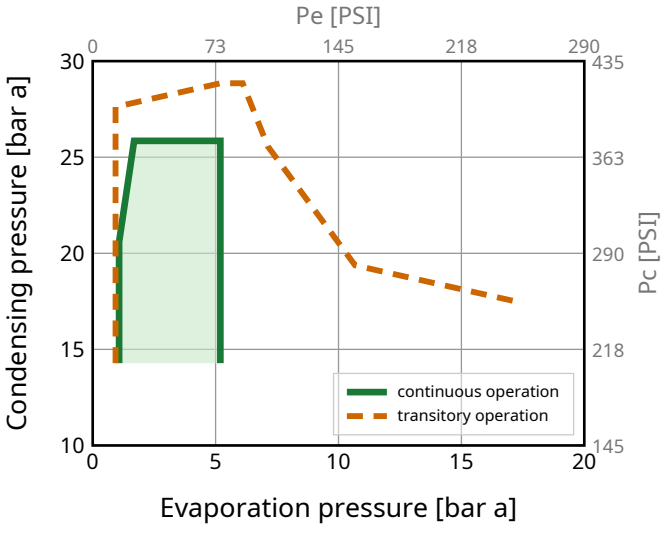
View full size

Components
a2 assy. relay 117U6003
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NL9CLX Configuration 1

Sales code:
105F3802

Standard Conditions

R404A, 220 V/50 Hz, CSIR, fan 3m/s

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	**457**	1560	393	**1.34**	4.57	341	2.11	10.63	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**310**	1058	267	**0.95**	3.24	326	2.06	9.67	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**244**	833	210	**1.02**	3.49	238	1.78	6.61	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**340**	1161	293	**1.02**	3.48	333	2.08	12.00	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**512**	1746	440	**1.60**	5.46	320	2.04	11.90	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**230**	784	198	**0.96**	3.26	241	1.79	6.13	**opt LBP**

Performance Tables

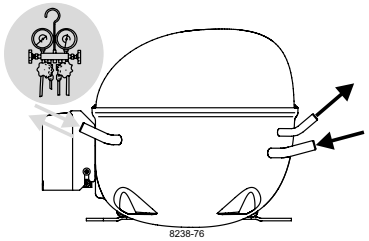
R404A, 220 V/50 Hz, CSIR, fan 3m/s

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]
-45	-49	**129**	442	111	**0.72**	2.46	180	1.64	3.43
-40	-40	**172**	587	148	**0.83**	2.82	208	1.71	4.57
-30	-22	**304**	1036	261	**1.10**	3.75	276	1.90	8.13
-20	-4	**499**	1702	429	**1.41**	4.81	354	2.16	13.51
-10	14	**759**	2590	653	**1.75**	5.99	433	2.46	20.87
-5	23	**914**	3120	786	**1.94**	6.63	471	2.62	25.38

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

-45	-49	**90**	306	77	**0.51**	1.73	177	1.62	2.75
-40	-40	**126**	429	108	**0.61**	2.07	207	1.69	3.87
-30	-22	**236**	804	203	**0.83**	2.85	282	1.91	7.31
-20	-4	**397**	1356	342	**1.06**	3.63	373	2.23	12.48
-10	14	**612**	2089	526	**1.30**	4.43	472	2.61	19.57
-5	23	**740**	2525	636	**1.42**	4.84	522	2.83	23.92



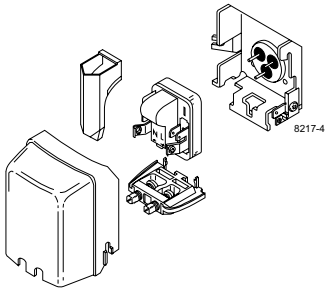
NL Compressors

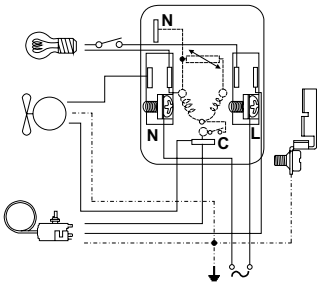
SECOP

Keep electrical equipment clear from oil, chemicals, and water

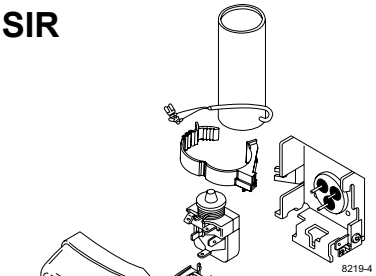
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

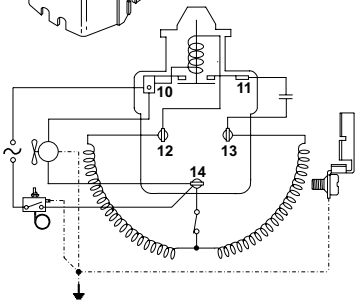
RSIR



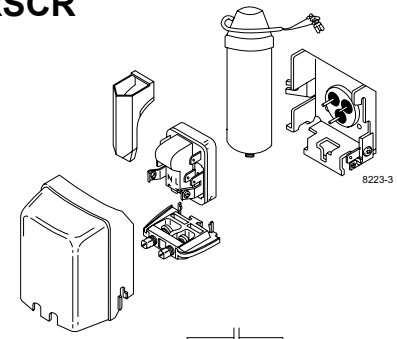


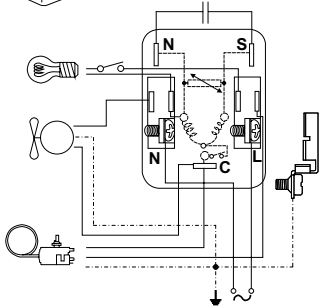
CSIR

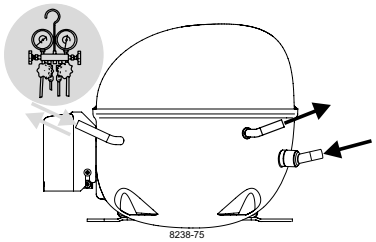




RSCR







NL Compressors

SECOP

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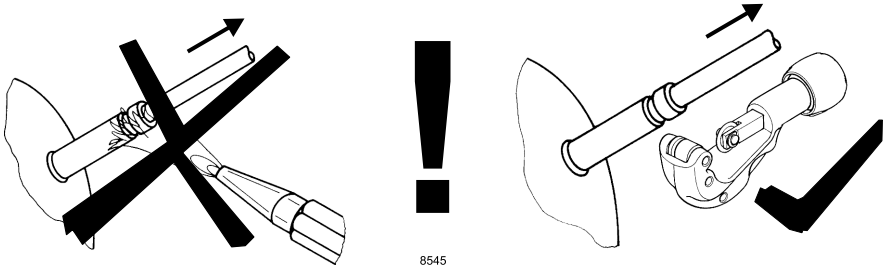
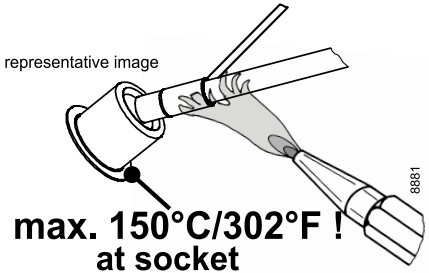
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**