

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

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Compressor Design

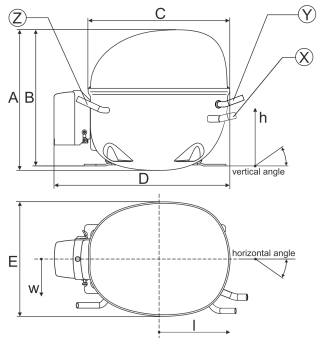
Oil type	POE	Winding resistance main	6.100 Ohm
Oil viscosity	32cSt	Winding resistance aux	16.00 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,310 cm3 / 78.11fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

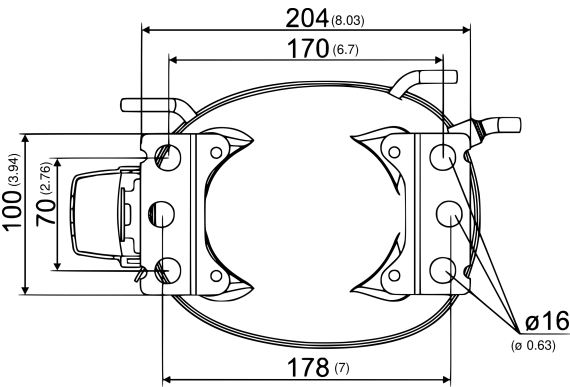
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

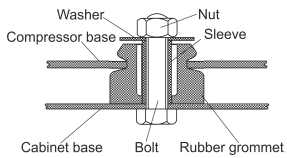


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

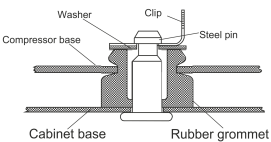
Mounting Accessories



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	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

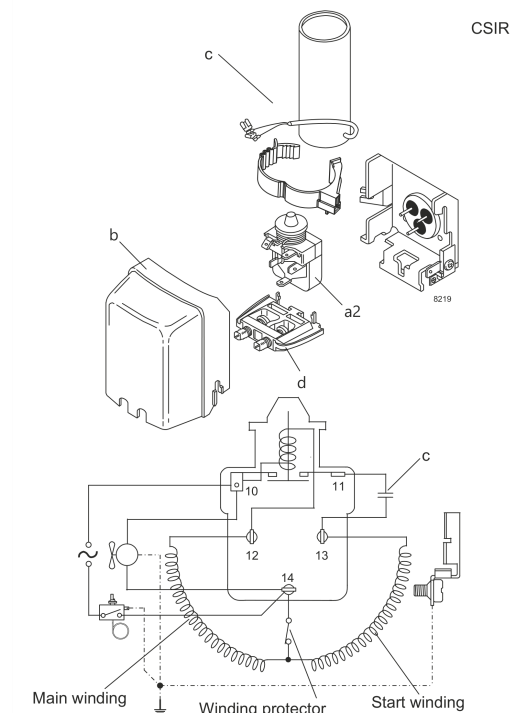
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a2 assy. relay 117U6003

c start capacitor (80µF) 117U5015

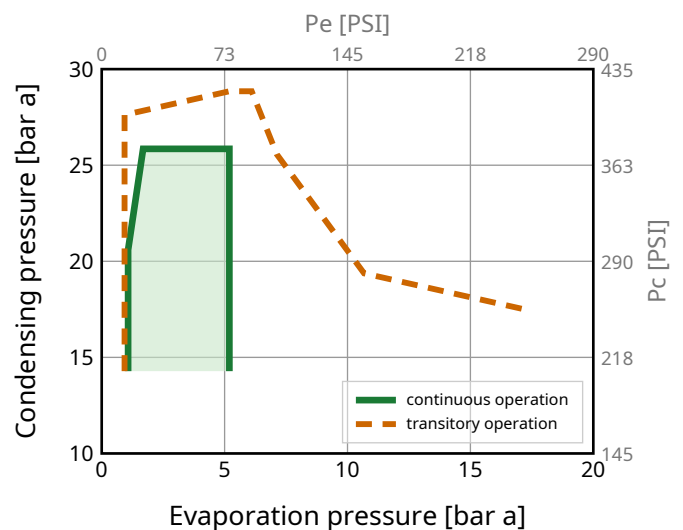
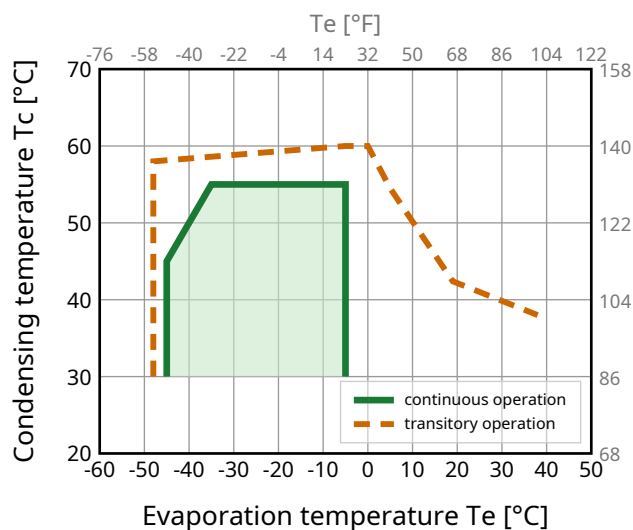
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Standard Conditions

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

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	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
-25 -13	45 113	32 89.6	45 113	393	1342	338	1.25	4.27	314	2.02	10.58	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	m
[°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