

Model
NLX13KK.3

Sales code:
105H6306

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.80 kg / 23.81lbs
Displacement	13.25 cm3 / 0.81cu.in
Compressors on pallet	80



General – Configurations With NLX13KK.3

-	Conf. 1
Motor configuration	RSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CB
Starting torque	LST
Refrigerant	R600a
Application	LBP

Application Notes

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

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Compressor Design

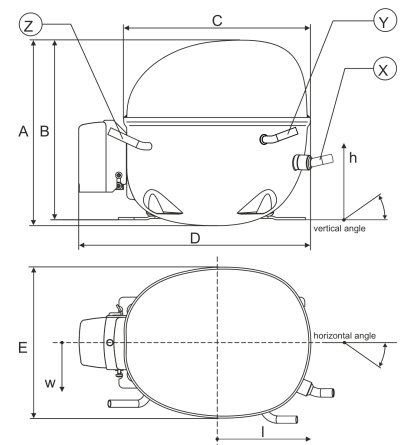
Oil type	Mineral	Winding resistance main	18.000 Ohm
Oil viscosity	5cSt	Winding resistance aux	18.80 Ohm
Oil quantity	265 / 8.96fl.oz	Max. winding temp.	120 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

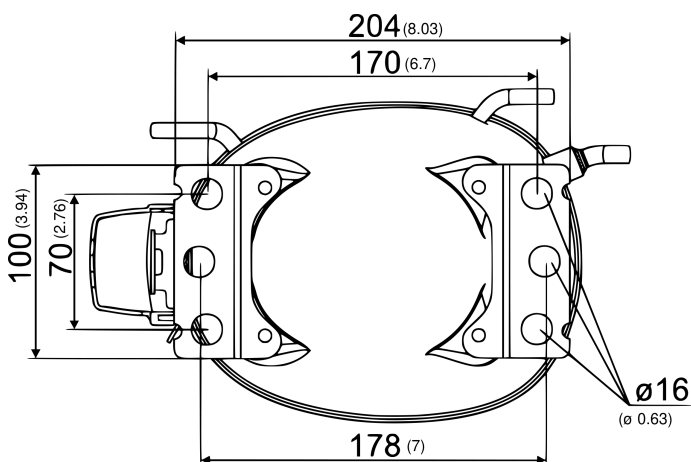
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 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



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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE, CB
Starting device type	PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	5.3 A
RLA (rated load amps / 1s/ U(N))	0.9 A
Cut in current (U(N))	8.9 A

Ambient/ machine room temperatures minimum /maximum

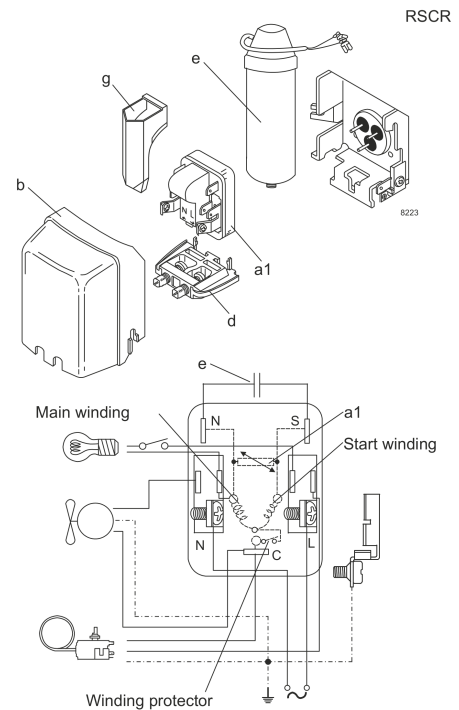
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

a1 PTC starter (220V, 250Ohm, 4.8mm) 103N0021

e run capacitor (4 μ F, 4.8mm) 117-7119

b plastic cover 103N2010

d cord relief 103N1010

g protection screen for PTC 103N0476

bracket for run capacitor 117-0300

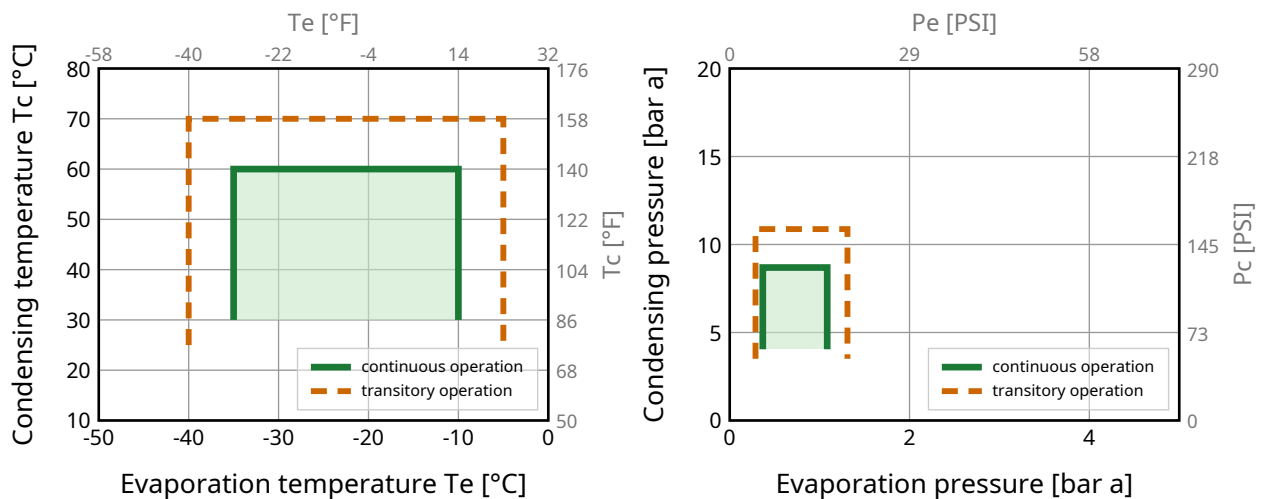
Alternative components

a1 e-PTC starter (220V, 250Ohm, 4.8mm) 103N0050

b plastic cover 103N2011

screw M4x8mm 117-0301

Operation Pressure Range



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Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

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	225	767	193	1.84	6.28	122	0.57	2.42	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	168	573	144	1.45	4.95	116	0.55	2.19	CECOMAF LBP
-35 -31	40 104	20 68	40 104	121	411	104	1.45	4.94	83	0.33	1.47	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	187	638	161	1.54	5.26	121	0.53	2.73	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	252	860	217	2.13	7.26	118	0.46	2.71	AHAM LBP
-25 -13	45 113	32 89.6	45 113	202	688	173	1.76	5.99	115	0.47	2.40	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSCR, static

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]
-35	-31	114	388	98	1.37	4.67	83	0.35	1.35
-30	-22	153	521	131	1.55	5.31	98	0.41	1.82
-25	-13	202	688	173	1.76	5.99	115	0.47	2.40
-20	-4	261	891	224	1.97	6.72	132	0.55	3.11
-15	5	331	1130	285	2.19	7.48	151	0.64	3.96
-10	14	413	1408	355	2.42	8.27	170	0.76	4.94

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

-35	-31	93	316	80	1.12	3.82	83	0.39	1.21
-30	-22	126	429	108	1.28	4.36	98	0.47	1.64
-25	-13	168	573	144	1.45	4.95	116	0.55	2.19
-20	-4	220	751	189	1.63	5.55	135	0.63	2.87
-15	5	283	964	243	1.81	6.17	156	0.72	3.70
-10	14	356	1215	306	1.99	6.78	179	0.84	4.67