

Model
NLX15KK.3

Sales code:
105H6506

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.80 kg / 23.81lbs
Displacement	14.65 cm3 / 0.89cu.in
Compressors on pallet	80



General – Configurations With NLX15KK.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

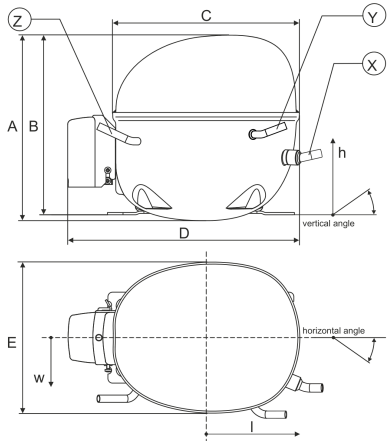
Oil type	Mineral	Free gas volume comp.	2,360 cm ³ / 79.80fl.oz
Oil viscosity	5cSt	Max. winding temp.	120 °C
Oil quantity	265 / 8.96fl.oz	Max. discharge temp.	130°C / 266°F

Compressor Dimensions

Housing

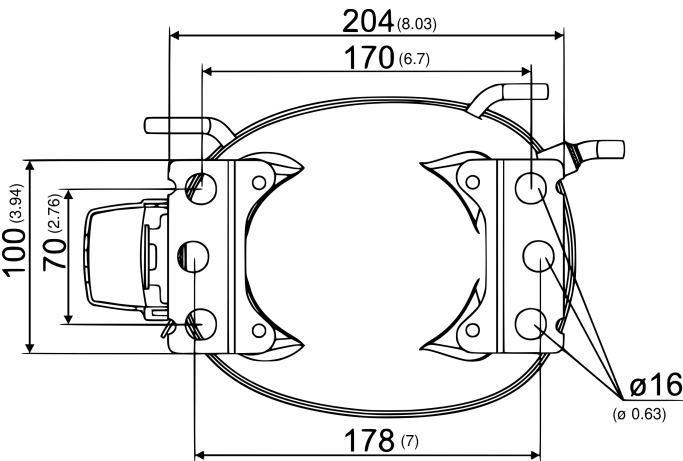
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

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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]

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Motor configuration	RSCR
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	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

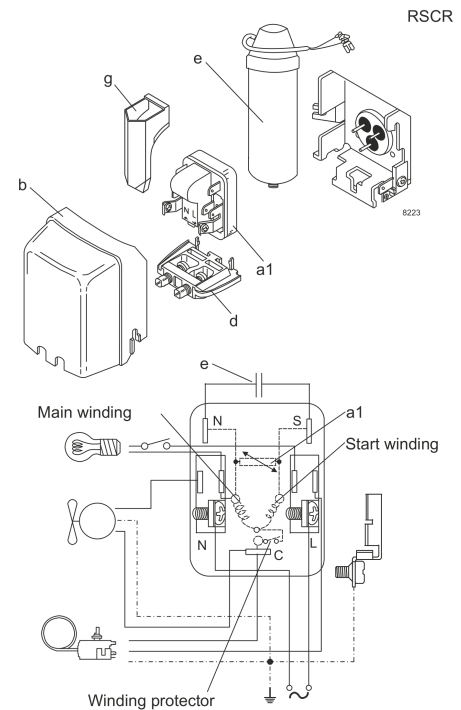
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

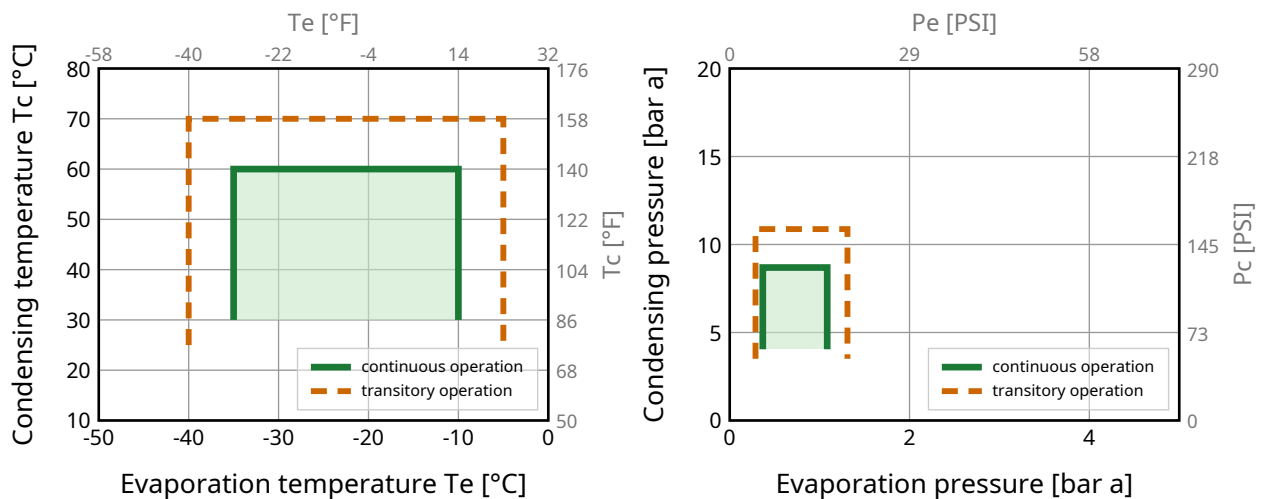
Alternative components

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	253	863	218	1.85	6.30	137	0.62	2.72	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	647	163	1.45	4.95	131	0.60	2.47	CECOMAF LBP
-35 -31	40 104	20 68	40 104	137	466	117	1.46	4.98	94	0.41	1.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	212	723	182	1.58	5.40	134	0.59	3.09	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	285	971	245	2.20	7.50	130	0.53	3.06	AHAM LBP
-25 -13	45 113	32 89.6	45 113	229	780	197	1.82	6.22	125	0.53	2.72	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	128	438	110	1.36	4.66	94	0.44	1.52
-30	-22	173	591	149	1.60	5.46	108	0.46	2.06
-25	-13	229	780	197	1.82	6.22	125	0.53	2.72
-20	-4	296	1011	255	2.04	6.97	145	0.64	3.53
-15	5	378	1290	325	2.27	7.73	167	0.77	4.52
-10	14	476	1623	409	2.50	8.53	190	0.90	5.70

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

-35	-31	108	370	93	1.08	3.67	101	0.53	1.41
-30	-22	144	491	124	1.27	4.32	114	0.54	1.88
-25	-13	190	647	163	1.45	4.95	131	0.60	2.47
-20	-4	247	842	212	1.63	5.56	152	0.70	3.22
-15	5	317	1083	273	1.81	6.17	176	0.82	4.15
-10	14	403	1376	347	1.99	6.80	202	0.96	5.29