

Model

NLX15KK.2

Sales code:

105H6977

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.2

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

Application Notes

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

Model
NLX15KK.2

Sales code:
105H6977

Compressor Design

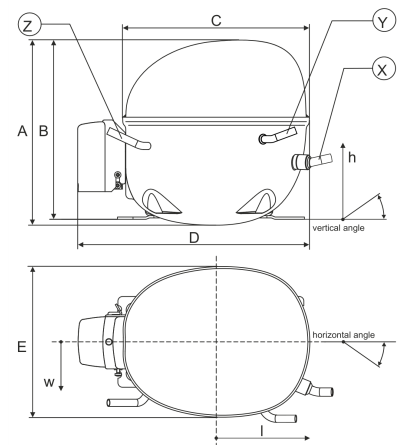
Oil type	POE	Winding resistance main	11.300 Ohm
Oil viscosity	9,7cSt	Winding resistance aux	21.30 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	95 °C
Free gas volume comp.	2,360 cm3 / 79.80fl.oz	Max. discharge temp.	130°C / 266°F

Compressor Dimensions

Housing

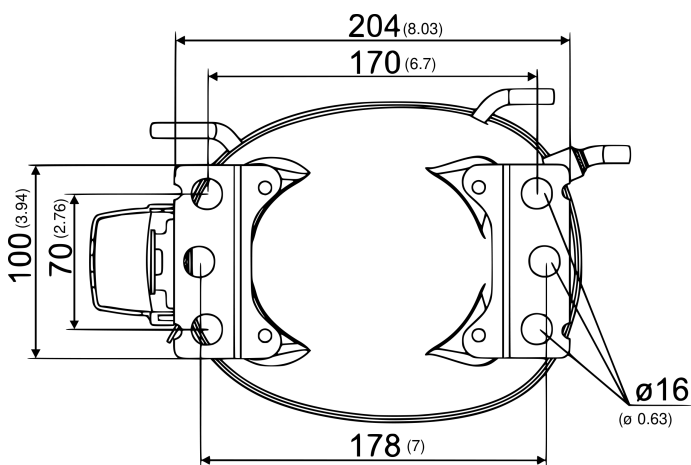
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[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



Model
NLX15KK.2

Configuration 1

Sales code:
105H6977

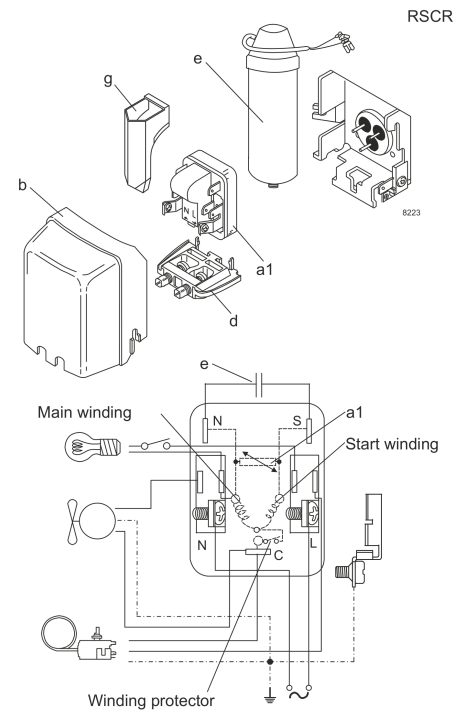
Configuration

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, CCC, 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 - 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](#)

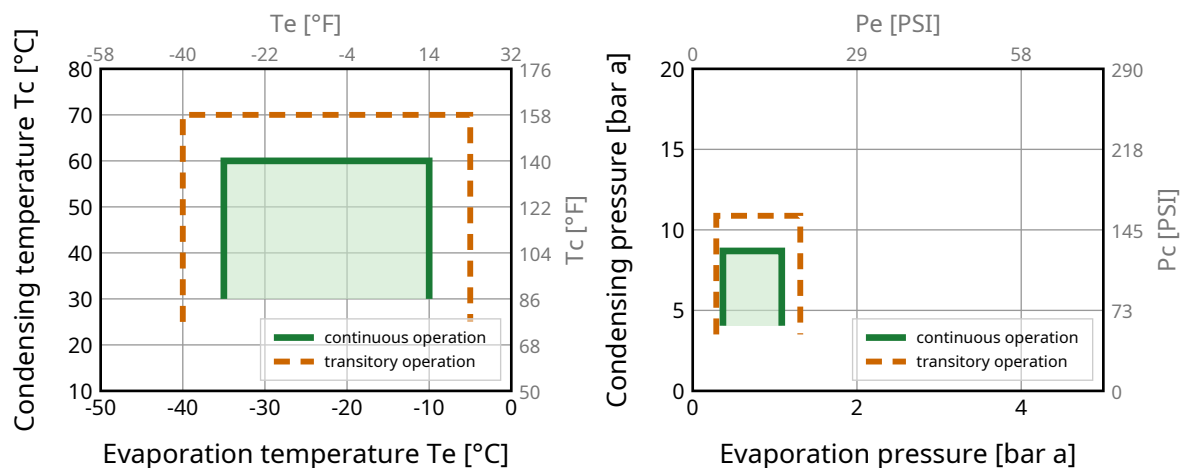
Components

a1 PTC starter (220V, 250 Ω , 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 PTC starter (220V, 250 Ω , 6.3mm) 103N0016
e run capacitor (4 μ F, 6.3mm) 117-7117
b plastic cover 103N2011
 screw M4x8mm 117-0301

Operation Pressure Range



Model
NLX15KK.2

Configuration 1

Sales code:
105H6977

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	254	868	219	1.87	6.38	136	0.64	2.73	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	192	655	165	1.48	5.04	130	0.61	2.50	CECOMAF LBP
-35 -31	40 104	20 68	40 104	137	467	118	1.50	5.12	91	0.44	1.67	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	208	709	179	1.58	5.38	132	0.62	3.03	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	272	928	234	2.19	7.46	124	0.59	2.92	AHAM LBP
-35 -31	45 113	32 89.6	45 113	132	449	113	1.41	4.82	93	0.44	1.56	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	132	449	113	1.41	4.82	93	0.44	1.56
-30	-22	173	589	149	1.60	5.47	108	0.51	2.05
-25	-13	222	758	191	1.80	6.16	123	0.58	2.65
-20	-4	282	960	242	2.02	6.88	140	0.66	3.36
-15	5	352	1200	303	2.23	7.62	158	0.74	4.20
-10	14	434	1483	374	2.45	8.37	177	0.83	5.20

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

-35	-31	110	377	95	1.17	3.98	95	0.45	1.44
-30	-22	147	503	127	1.32	4.49	112	0.53	1.92
-25	-13	192	655	165	1.48	5.04	130	0.61	2.50
-20	-4	245	837	211	1.64	5.61	149	0.70	3.20
-15	5	309	1054	266	1.82	6.20	170	0.80	4.04
-10	14	384	1309	330	2.00	6.81	192	0.90	5.03