Single
Packs

SECOP

Single Pack NLX15KK.2 220-240V 50Hz RSCR

Single pack code number: **195B4429**

Position	Title	Code	Amount
1	Compressor NLX15KK.2	105H6977	1
2	e-PTC starting device (220V, 25Ohm, 4.8mm)	103N0050	1
3	Protection screen for PTC	103N0476	1
4	Run capacitor (4µF 320V, 4.8mm)	117-7119	1
5	Run capacitor holder	117-0300	1
6	Screw for bracket M4x8mm	117-0301	1
7	Cord relief	103N1010	1
8	Cover	103N2010	1
9	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

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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
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Compressor Design

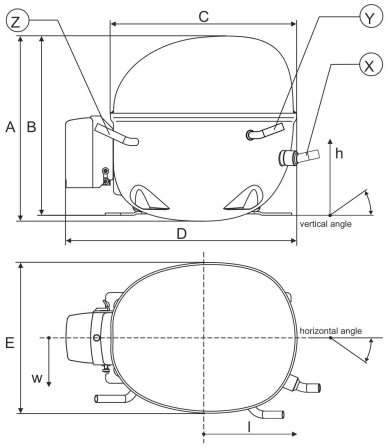
Oil type	**POE**	Winding resistance main	**11.300 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**21.30 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**95 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**

Compressor Dimensions

Housing

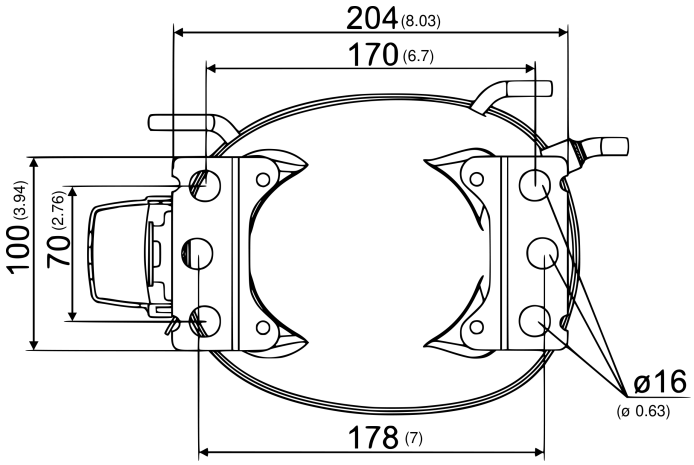
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

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



Dimensions in mm [in]

Model

NLX15KK.2 Configuration 1

Sales code:

105H6977

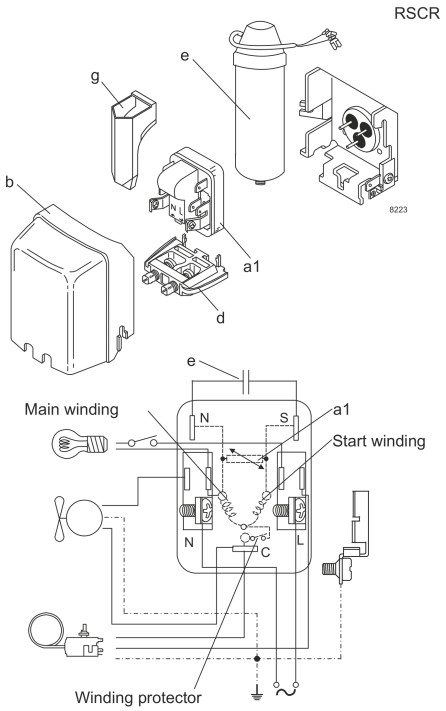
Configuration

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

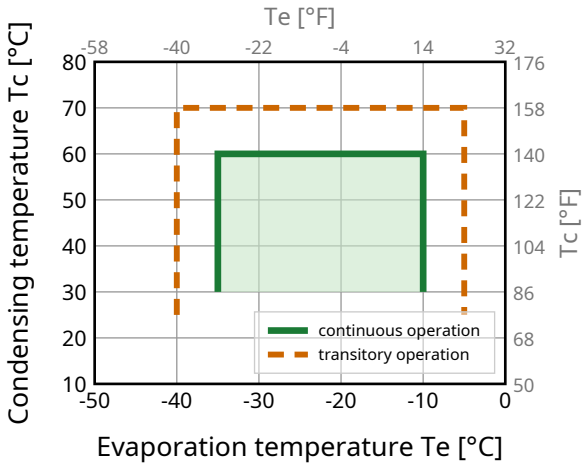


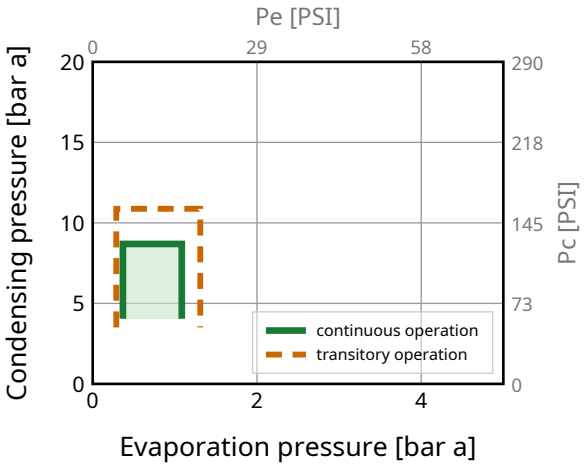
View full size

Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0021
e run capacitor (4µF, 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, 25Ohm, 6.3mm) 103N0016
e run capacitor (4µF, 6.3mm) 117-7117
b plastic cover 103N2011
screw M4x8mm 117-0301

Operation Pressure Range





Model Sales code:

NLX15KK.2 Configuration 1 **105H6977**

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

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	**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

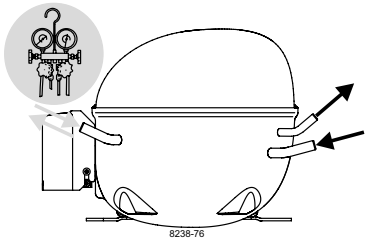
R600a, 220 V/50 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



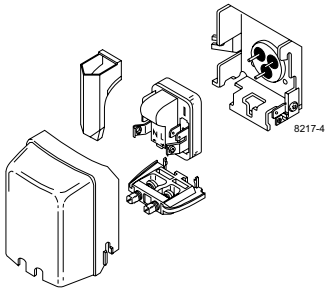
NL Compressors

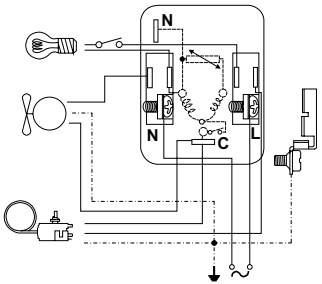
SECOP

Keep electrical equipment clear from oil, chemicals, and water

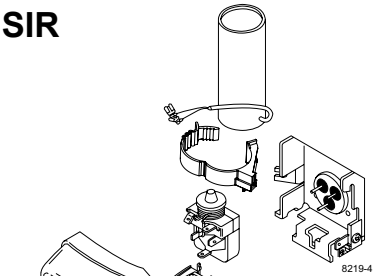
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

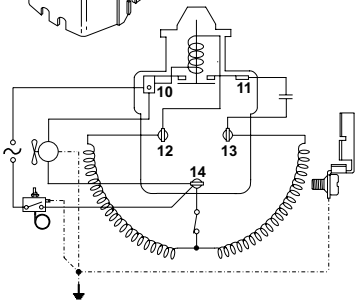
RSIR



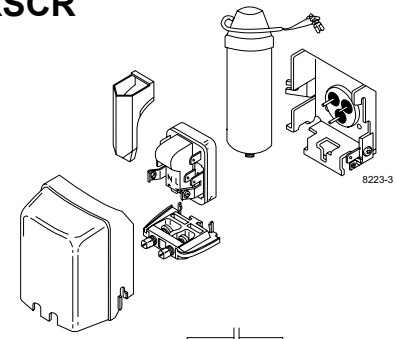


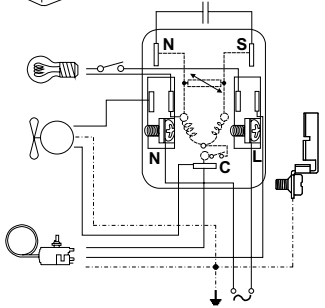
CSIR

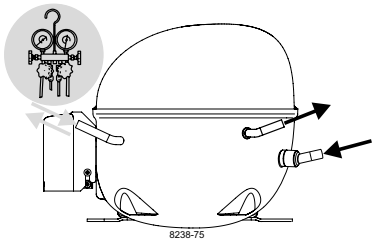




RSCR







NL Compressors

SECOP

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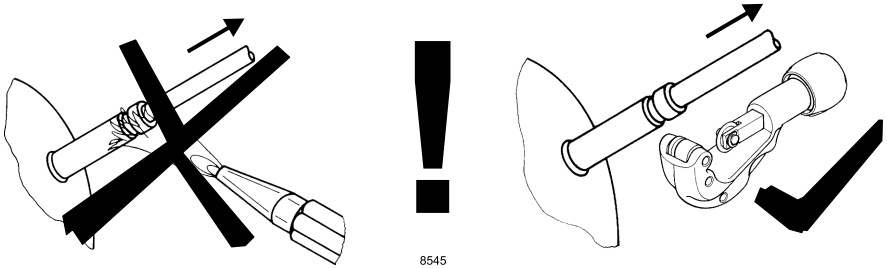
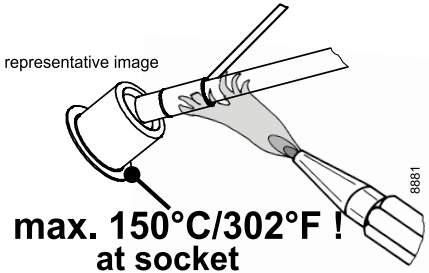
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**