Single
Packs

SECOP

Single Pack NLU10KK.1 220-240V 50Hz RSCR

Single pack code number: **195B4822**

Position	Title	Code	Amount
1	Compressor NLU10KK.1	105H6193	1
2	e-PTC starting device (220V, 38Ohm, 4.8mm)	103N0055	1
3	Run capacitor (2.5µF 320V, 4.8mm)	117-7139	1
4	Run capacitor bracket	117-0300	1
5	Screw for bracket M4x8mm	117-0301	1
6	Cord relief	103n1010	1
7	Cover	103n2010	1
8	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NLU10KK.1

Sales code:
105H6193

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**12.10 kg / 26.68lbs**
Displacement	**10.09 cm3 / 0.62cu.in**
Compressors on pallet	**80**

General – Configurations With NLU10KK.1

–	**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

Model
NLU10KK.1

Sales code:
105H6193

Compressor Design

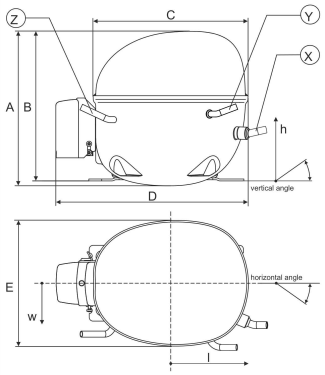
Oil type	**Mineral**	Winding resistance main	**19.39 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**22.46 Ohm**
Oil quantity	**265 / 8.96fl.oz**	Max. winding temp.	**105 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

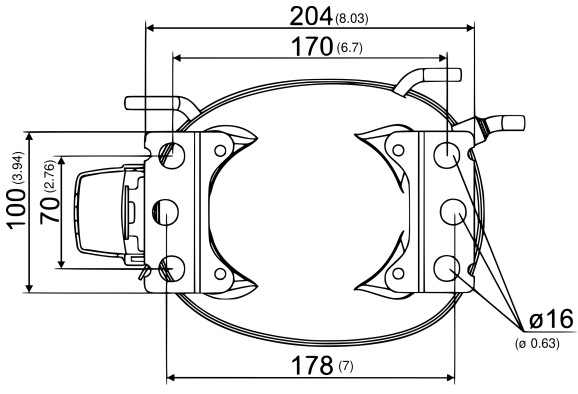
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



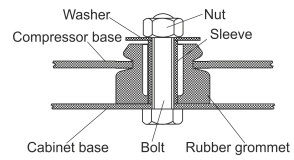
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	133/71/57 / 5.24/2.80/2.24in	91/102.5/81 / 3.58/4.04/3.19in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

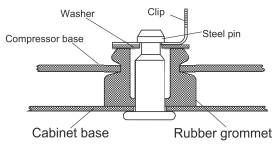


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
NLU10KK.1 Configuration 1

Sales code:
105H6193

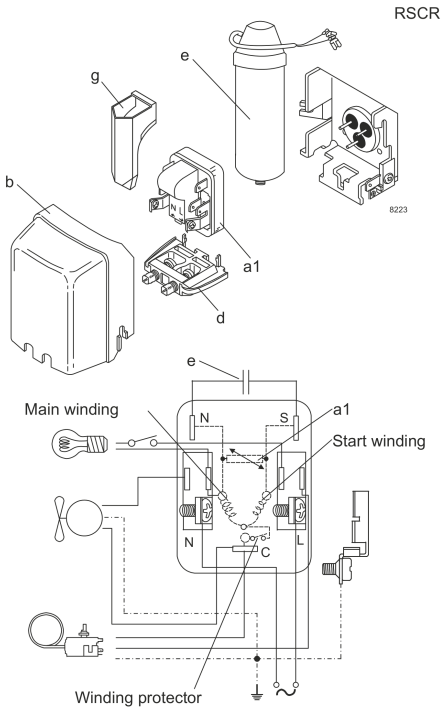
Configuration

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, CB**
Starting device type	**PTC**
Run capacitor	**2.5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**3.1 A**
RLA (rated load amps / 1s/ U(N))	**0.5 A**
Cut in current (U(N))	**6 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



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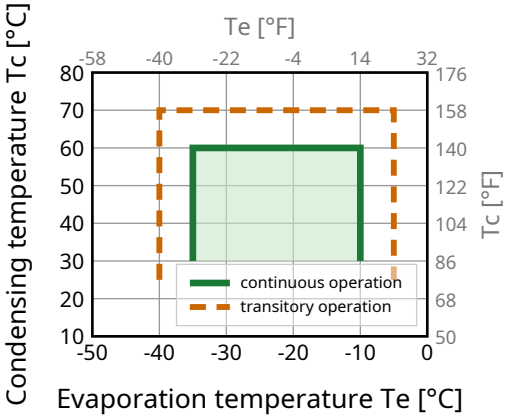
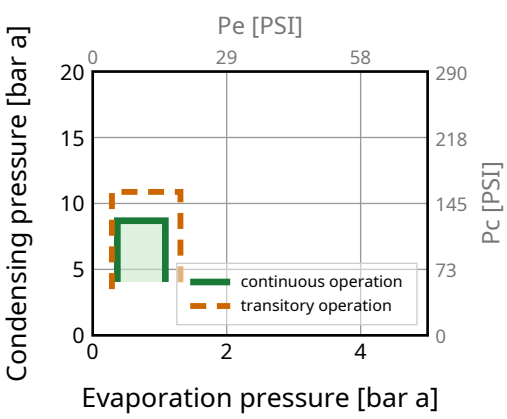
Components
a1 e-PTC starter (220V, 38Ohm, 4.8mm) 103N0055
e run capacitor (2.5µF, 4.8mm) 117-7139
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0021
e run capacitor (2.5µF, 4.8mm) 117-7139
b plastic cover 103N2011
d cord relief 103N1010
g protection screen for PTC 103N0476
bracket for run capacitor 117-0300

Operation Pressure Range





Model
NLU10KK.1 Configuration 1

Sales code:
105H6193

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	**176**	599	151	**1.98**	6.74	89	0.40	1.89	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**132**	449	113	**1.55**	5.30	85	0.38	1.71	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**92**	314	79	**1.58**	5.38	58	0.26	1.12	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**144**	492	124	**1.68**	5.72	86	0.39	2.10	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**190**	650	164	**2.33**	7.95	82	0.37	2.05	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**87**	298	75	**1.48**	5.06	59	0.26	1.04	**opt LBP**

Performance Tables

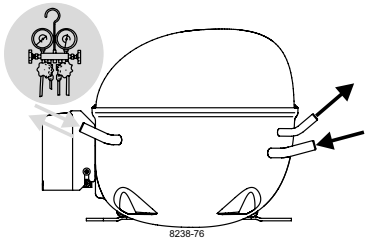
R600a, 220 V/50 Hz, RSCR, static

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	**87**	298	75	**1.48**	5.06	59	0.26	1.04
-30	-22	**118**	401	101	**1.69**	5.77	70	0.31	1.40
-25	-13	**154**	526	133	**1.92**	6.55	80	0.36	1.83
-20	-4	**198**	675	170	**2.16**	7.37	92	0.41	2.36
-15	5	**250**	852	215	**2.40**	8.21	104	0.47	2.98
-10	14	**311**	1060	267	**2.65**	9.05	117	0.53	3.72

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

-35	-31	**70**	241	61	**1.21**	4.11	58	0.26	0.92
-30	-22	**98**	335	84	**1.37**	4.68	72	0.32	1.28
-25	-13	**132**	449	113	**1.55**	5.30	85	0.38	1.71
-20	-4	**171**	584	147	**1.75**	5.96	98	0.44	2.24
-15	5	**218**	746	188	**1.95**	6.66	112	0.51	2.86
-10	14	**274**	935	236	**2.16**	7.38	127	0.57	3.60



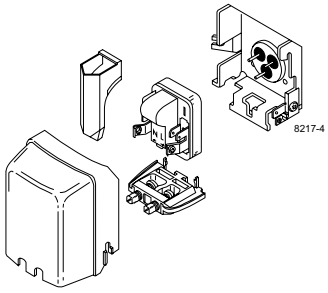
NL Compressors

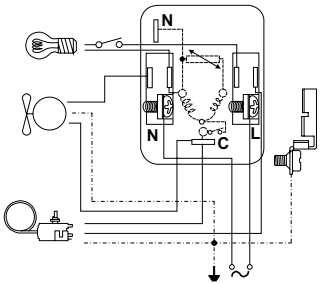
SECOP

Keep electrical equipment clear from oil, chemicals, and water

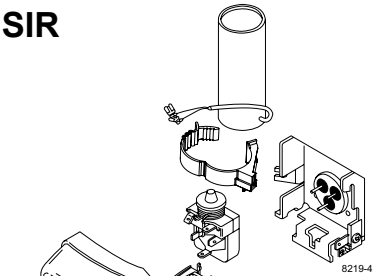
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

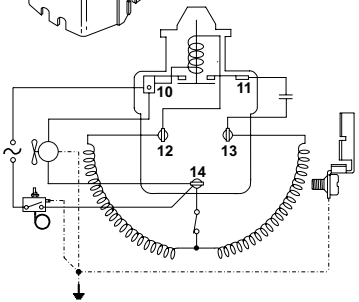
RSIR



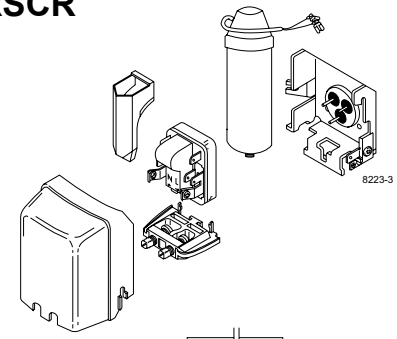


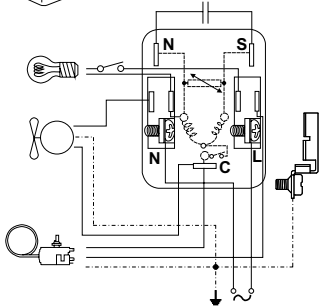
CSIR

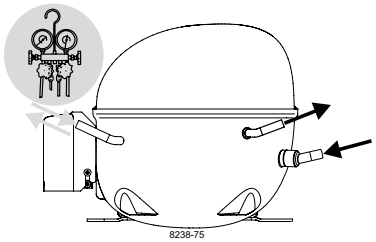




RSCR







NL Compressors

SECOP

Keep electrical equipment clear from oil, chemicals, and water

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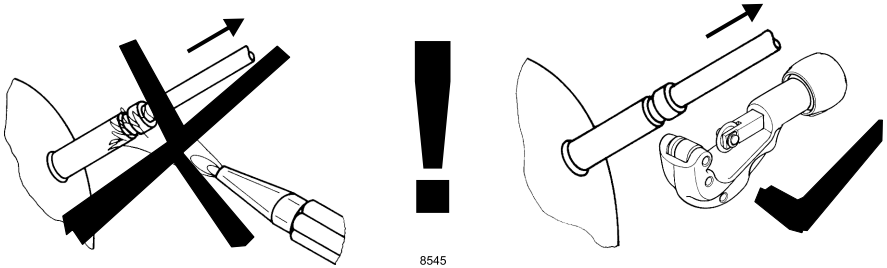
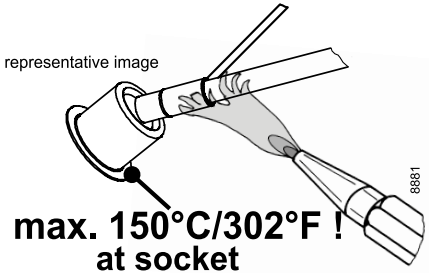
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**