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

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

Technical Data Compressor

SECOP

Model

Designation	**NLU10KK.1**	**220-240V/50Hz 1~**	Sales code:	**105H6193**

Compressor design

Oil type	Mineral	Refrigerant(s)	**R600a**
Oil viscosity	4,6cST	Displacement	10,09cm³ / 0,62cu.in
Oil quantity	264cm³ / 8,9fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	12,1kg / 26,7lbs		
Motor protection	1# internal		
Winding resistance main	19,39Ω (at 25°C)		
Winding resistance aux	22,46Ω (at 25°C)		
Max. winding temp.	105°C / 221°F		
Max. discharge temp.	130°C / 266°F		

General - Configurations with NLU10KK.1

	Conf. 1
Motorconfiguration	RSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CB
Starting torque	LST
Note	- / -

Applications with NLU10KK.1

	Conf. 1
Refrigerant	R600a
Application	LBP
System cooling	static
Hot gas defrost	-/-
Long interval pull down	-/-

Electrical data - Configurations with NLU10KK.1

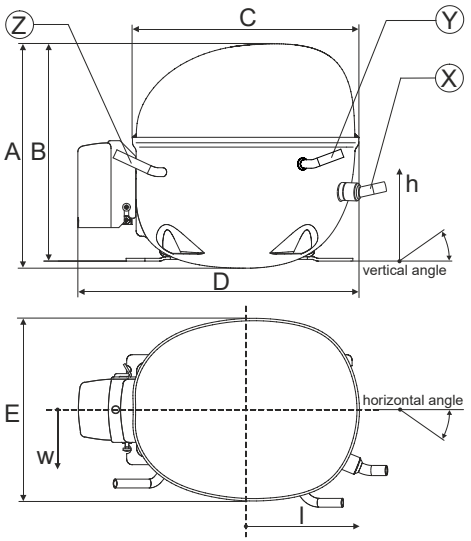
	Conf. 1
Starting device type	PTC
Run capacitor	2,5µF
Start capacitor	-/-
LRA (locked rotor amps / 4s)	3,1A
RLA (rated load amps / 1s)	0,5A
Cut in current	6A

Model

Designation **NLU10KK.1** **220-240V/50Hz 1~** Sales code: **105H6193**

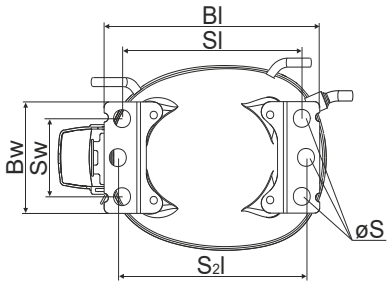
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in



Connectors		**Suction X**	**Discharge Y**	**Process Z**
Diameter	[mm]	øi 6,11-6,29	øi 5,12-5,22	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,24-0,25	øi 0,2-0,21	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	133/71/57	91/103/81	-107/94/72
	[in]	5,2/2,8/2,2	3,6/4/3,2	-4,2/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

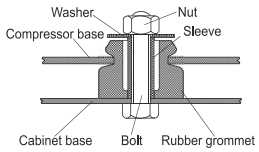
Compressor fixation



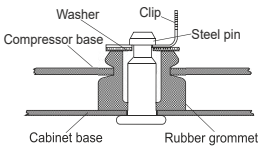
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	100	3.94

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	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

Designation				
	NLU10KK.1	**220-240V/50Hz**	**Conf. 1**	Sales code: **105H6193**

Configuration

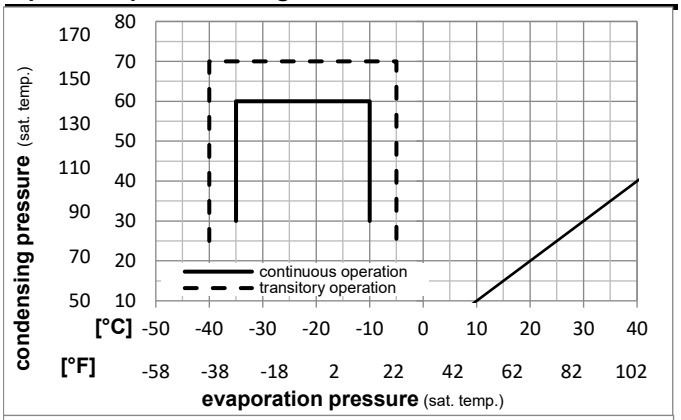
Motorconfiguration	RSCR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-254V
Starting torque	LST
Approvals	VDE
	CB

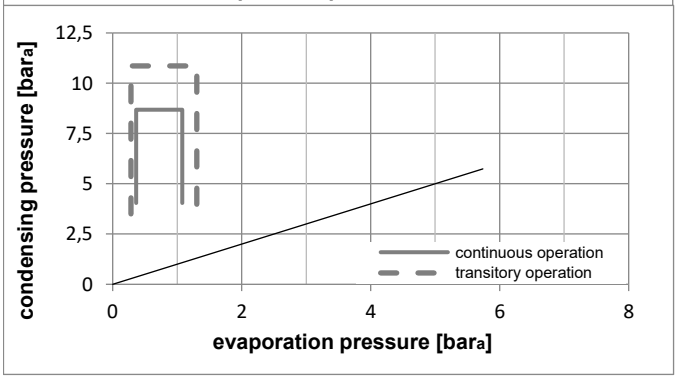
Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	static	n/a	n/a
43°C / 110°F	static	n/a	n/a

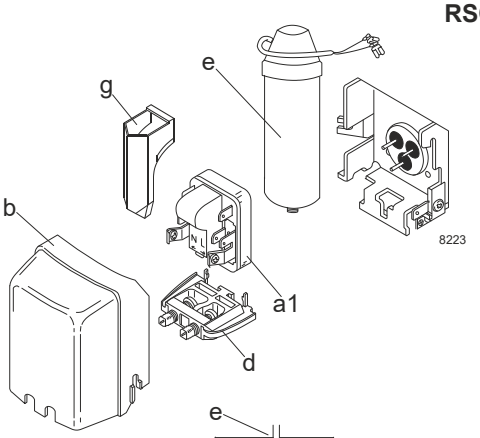
Operation pressure range

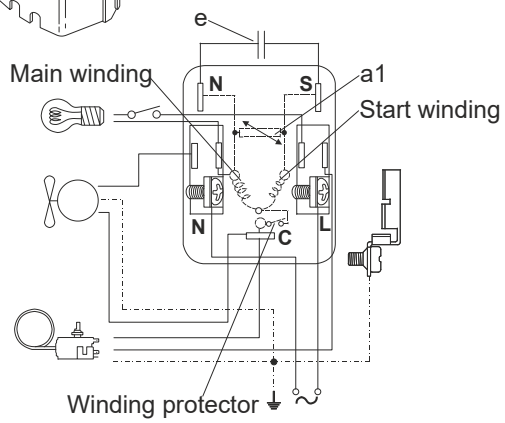




Electrical accessories / wiring diagram

RSCR





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

Model

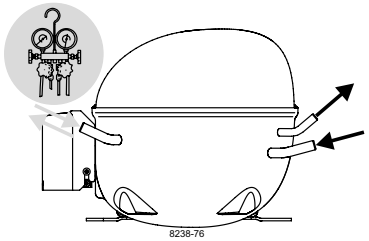
Designation **NLU10KK.1** **220-240V/50Hz** **Conf. 1** Sales code: **105H6193**

Optimization + standard conditions R600a, 220V/50Hz, RSCR, static, VDE, CB

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	Cooling capacity [Btu/h]	Cooling capacity [kcal/h]	COP [W/W]	EER [Btu/Wh]	EER [kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	175,7	600	151,2	1,98	6,75	1,70	88,8	0,40	1,89	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	131,5	449	113,2	1,55	5,30	1,34	84,7	0,38	1,72	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	91,9	314	79,1	1,58	5,39	1,36	58,3	0,26	1,12	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	143,8	491	123,8	1,67	5,71	1,44	86,1	0,39	2,10	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	190,3	650	163,8	2,33	7,96	2,01	81,7	0,37	2,04	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	87,2	298	75,1	1,48	5,06	1,28	58,9	0,26	1,04	**opt**
[°F]	-31	113	90	113										

Performance tables R600a, 220V/50Hz, RSCR, static, VDE, CB

	pe [°C]	pe [°F]	Cooling capacity [W]	Cooling capacity [Btu/h]	Cooling capacity [kcal/h]	COP [W/W]	EER [Btu/Wh]	EER [kcal/Wh]	P1 [W]	I [A]	m [kg/h]
[°C / °F]	-35	-31	87,2	298	75,1	1,48	5,06	1,28	58,9	0,26	1,04
cond. pressure	-30	-22	117,6	401	101,2	1,69	5,78	1,46	69,5	0,31	1,40
pc= 45/113	-25	-13	154,1	526	132,6	1,92	6,55	1,65	80,3	0,36	1,83
return gas temp.	-23	-10	168,2	574	144,7	2,00	6,83	1,72	84,1	0,38	2,00
RGT= 32/90	-20	-4	197,9	676	170,3	2,16	7,37	1,86	91,7	0,41	2,36
liquid temp	-15	5	249,8	853	215,0	2,41	8,21	2,07	103,8	0,47	2,98
Tliq= 45/113	-10	14	310,7	1061	267,4	2,65	9,06	2,28	117,1	0,53	3,72
[°C / °F]	-35	-31	70,5	241	60,7	1,21	4,12	1,04	58,4	0,26	0,92
cond. pressure	-30	-22	98,2	335	84,5	1,37	4,69	1,18	71,6	0,32	1,28
pc= 55/131	-25	-13	131,5	449	113,2	1,55	5,30	1,34	84,7	0,38	1,72
return gas temp	-23	-10	144,2	493	124,1	1,62	5,52	1,39	89,2	0,40	1,88
RGT= 32/90	-20	-4	171,3	585	147,4	1,75	5,97	1,50	98,1	0,44	2,24
liquid temp	-15	5	218,5	746	188,1	1,95	6,66	1,68	112,0	0,50	2,86
Tliq= 55/131	-10	14	274,1	936	235,9	2,16	7,38	1,86	126,8	0,57	3,60



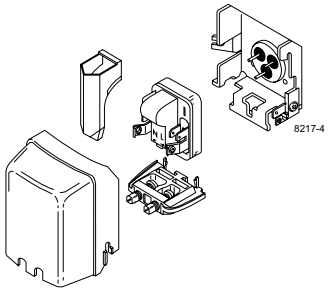
NL Compressors

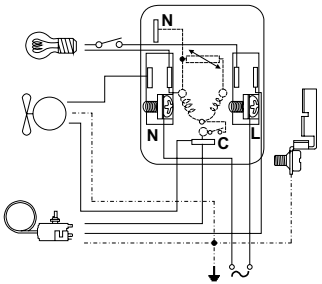
SECOP

Keep electrical equipment clear from oil, chemicals, and water

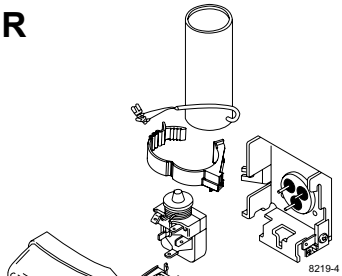
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

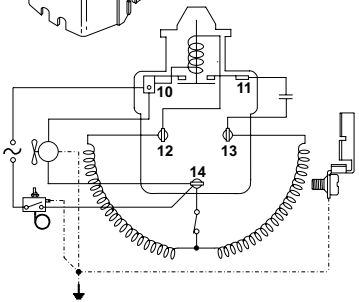
RSIR



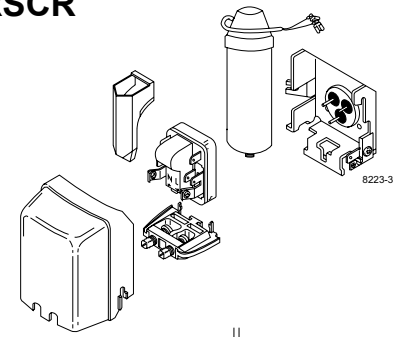


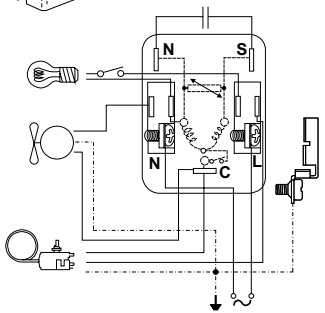
CSIR

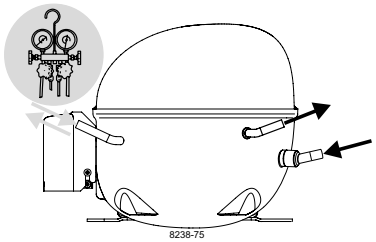




RSCR







NL Compressors

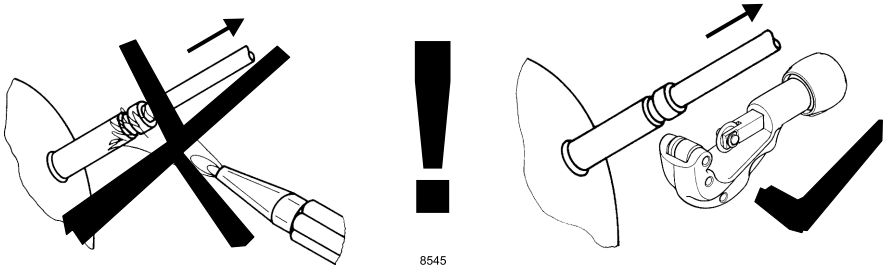
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

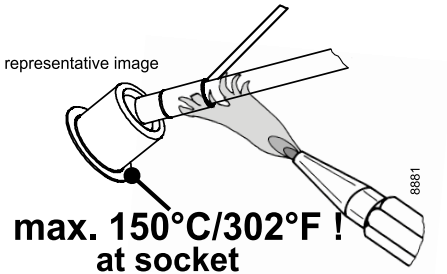
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**