

Single Pack NLU13KK.1 220-240V 50Hz RSCR

Single pack code number: **195B4286**

Position	Title	Code	Amount
1	Compressor NLU13KK.1	105H6372	1
2	PTC starting device (220V, 250hm, 4.8mm)	103N0021	1
3	Protection screen for PTC	103N0476	1
4	Run capacitor (3μF 320V, 4.8mm)	117-7132	1
5	Cord relief	103N1010	1
6	Cover	103N2010	1
7	Bolt joint for one compressor M6 ø16mm	118-1917	1

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NLU13KK.1 High Energy-optimized Compressor R600a 220-240V 50Hz

General

Code number	105H6372
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	80

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	—
Voltage range	V	198 - 254	—
Max. condensing temperature continuous (short)	°C	60 (70)	—
Max. winding temperature continuous (short)	°C	105 (115)	—

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	—	—	—	—	—
38°C		S	—	—	—	—	—
43°C		S	—	—	—	—	—
Remarks on application:							

Motor

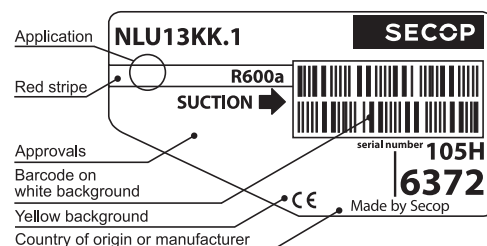
Motor type	RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	—	5.1
Cut in Current, HST LST	A	—	8.0
Resistance, main start winding (25°C)	Ω	14.0	24.0

Design

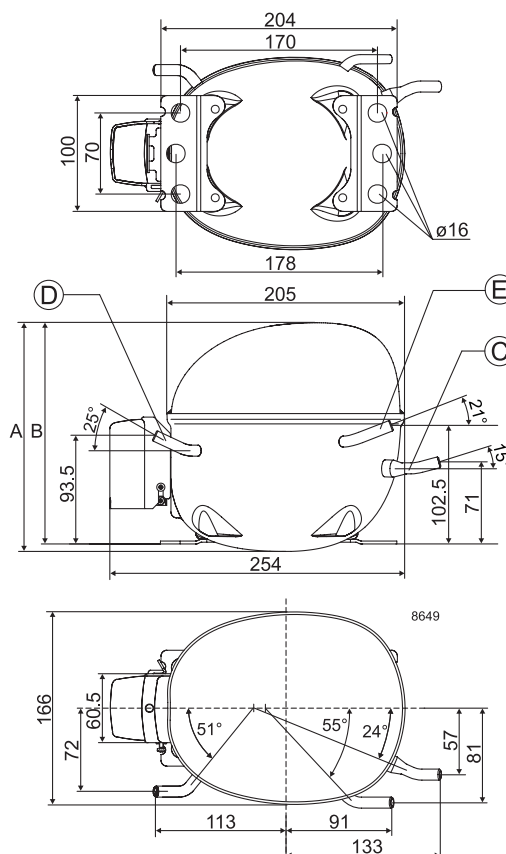
Displacement	cm ³	13.25
Oil quantity (type)	cm ³	270 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	2360
Weight without electrical equipment	kg	12.1

Dimensions

Height	mm	A	203
		B	197
		B1	—
		B2	—
Suction connector	location/I.D. mm angle	C	6.2 15°
	material comment	Copper Rubber plug	
Process connector	location/I.D. mm angle	D	6.2 25°
	material comment	Copper Rubber plug	
Discharge connector	location/I.D. mm angle	E	5.0 21°
	material comment	Copper Rubber plug	
Oil cooler connector	location/I.D. mm angle	F	—
	material comment	—	
Connector tolerance	I.D. mm	±0.09, on 5.0 +0.12/+0.20	
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area

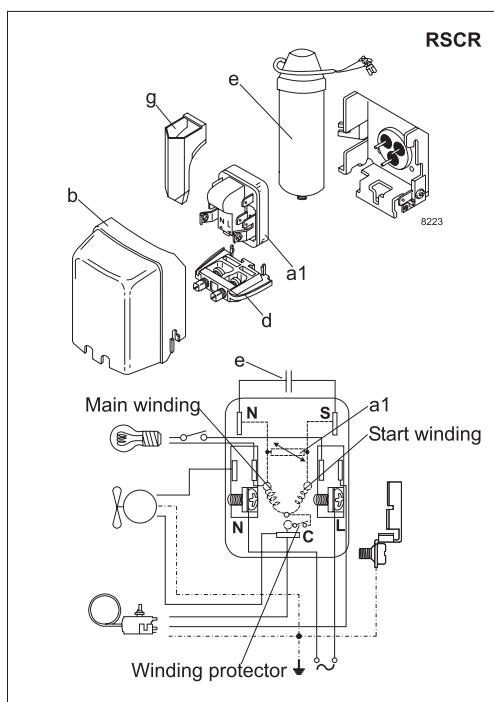


EN 12900 Household (CECOMAF) 220V, 50Hz, RC 3 µF, ePTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			92.7	129	172	189	224	285	357								
Power cons. in W			76.4	93.7	111	117	129	147	166								
Current cons. in A			0.34	0.42	0.50	0.53	0.58	0.67	0.76								
COP in W/W			1.21	1.37	1.55	1.61	1.74	1.94	2.15								

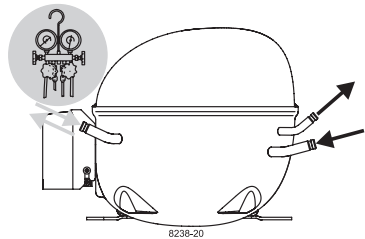
ASHRAE LBP 220V, 50Hz, RC 3 µF, ePTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			114	157	210	223	273	348	436								
Power cons. in W			76.5	93.6	111	114	128	146	166								
Current cons. in A			0.34	0.42	0.50	0.52	0.58	0.66	0.75								
COP in W/W			1.48	1.68	1.90	1.95	2.13	2.38	2.63								



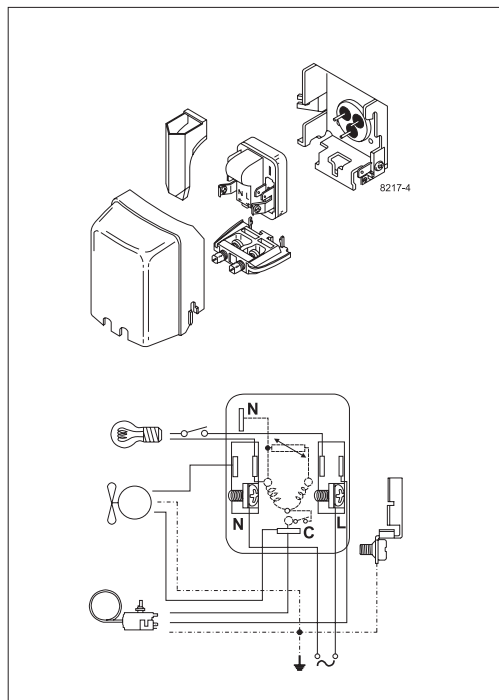
Accessories for NLU13KK.1		Figure	Code number	Test conditions	EN 12900/ CECOMAF	ASHRAE LBP												
PTC starting device	6.3 mm spade connectors	a1	—	Condensing temperature	55°C	54.4°C												
	4.8 mm spade connectors		103N0021	Ambient temperature	32°C	32°C												
ePTC starting device	4.8 mm spade connectors		103N0055	Suction gas temperature	32°C	32°C												
Cover		b	103N2010	Liquid temperature	no subcooling	32°C												
Run capacitor 3 µF (compulsory)	6.3 mm spade connectors	e	—	<table><tr><th colspan="2">Mounting accessories</th><th>Code number</th></tr><tr><td>Bolt joint for one comp.</td><td>Ø: 16 mm</td><td>118-1917</td></tr><tr><td>Bolt joint in quantities</td><td>Ø: 16 mm</td><td>118-1918</td></tr><tr><td>Snap-on in quantities</td><td>Ø: 16 mm</td><td>118-1919</td></tr></table>			Mounting accessories		Code number	Bolt joint for one comp.	Ø: 16 mm	118-1917	Bolt joint in quantities	Ø: 16 mm	118-1918	Snap-on in quantities	Ø: 16 mm	118-1919
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	4.8 mm spade connectors	117-7132																
Cord relief		d	103N1010															
Protection screen for PTC		g	103N0476															

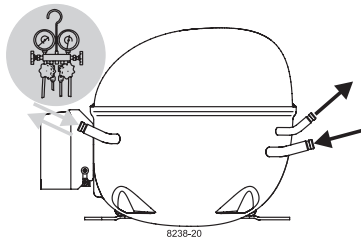
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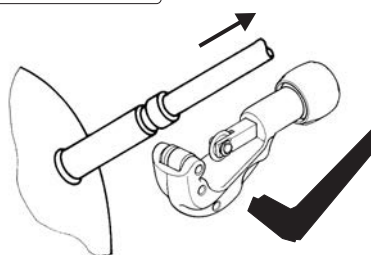
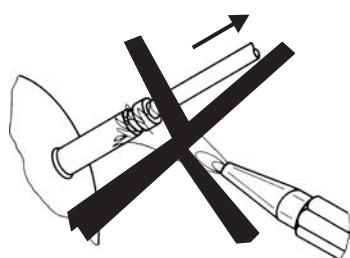
NL Compressors

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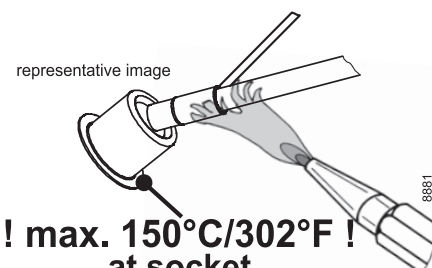




Service/Repair – R600a, R290



Brazing on Suction Connectors (Direct Intake)



**! 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)**

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