

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

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Compressor Design

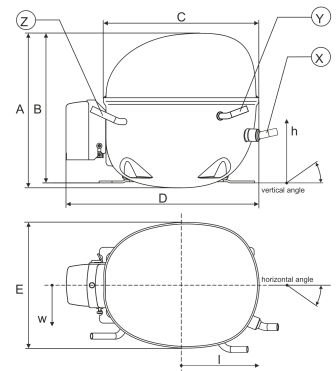
Oil type	Mineral	Winding resistance main	19.390 Ohm
Oil viscosity	5cSt	Winding resistance aux	22.50 Ohm
Oil quantity	265 / 8.96fl.oz	Max. winding temp.	105 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

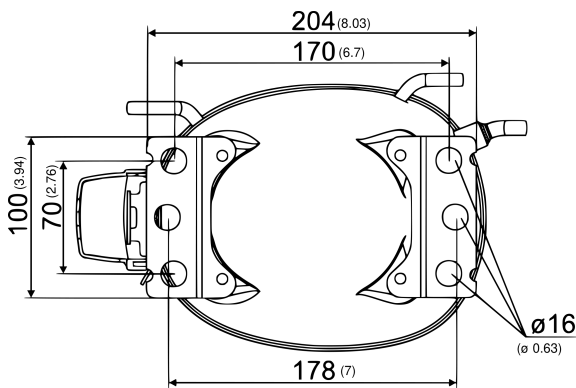
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[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

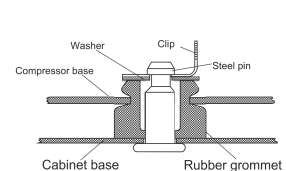
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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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

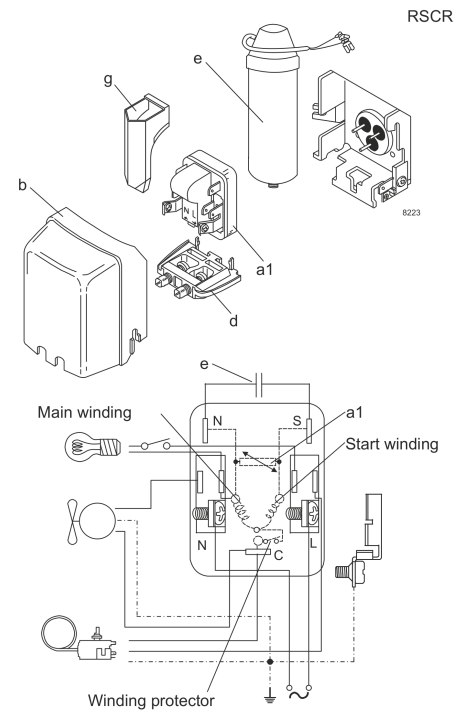
Ambient temperature range: 10 - 43°C / 50 - 109°F

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, 380 Ω , 4.8mm) 103N0055

e run capacitor (2.5 μ F, 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, 250 Ω , 4.8mm) 103N0021

e run capacitor (2.5 μ F, 4.8mm) 117-7139

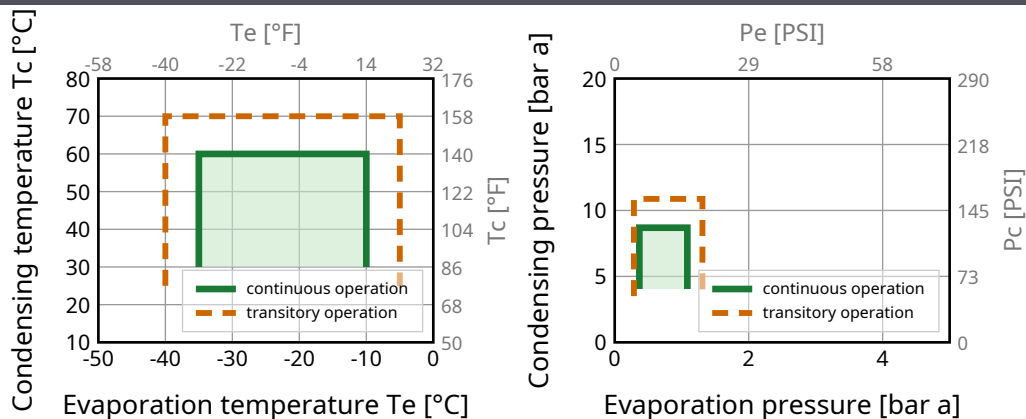
b plastic cover 103N2011

d cord relief 103N1010

g protection screen for PTC 103N0476

bracket for run capacitor 117-0300

Operation Pressure Range



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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	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
-25 -13	45 113	32 89.6	45 113	154	526	133	1.92	6.55	80	0.36	1.83	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	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