

Model
NLE13KK.4

Sales code:
105H6959

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.00 kg / 22.05lbs
Displacement	13.25 cm3 / 0.81cu.in
Compressors on pallet	80



General – Configurations With NLE13KK.4

-	Conf. 1	Conf. 2
Motor configuration	RSCR	RSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CB	VDE, CB
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

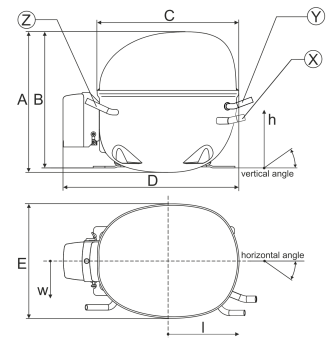
Oil type	Mineral	Winding resistance main	13.7 Ohm
Oil viscosity	9,6cSt	Winding resistance aux	14.9 Ohm
Oil quantity	265 / 8.96fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,310 cm³ / 78.11fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

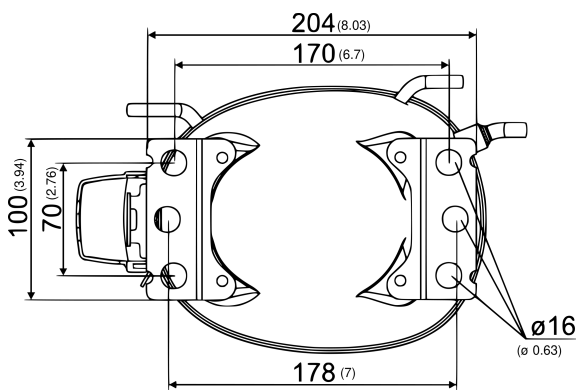
A Height	190.5mm / 7.50in
B Height	184.5mm / 7.26in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

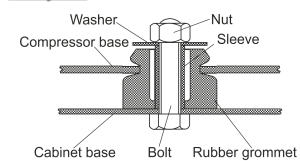


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 9.61–9.79 / 0.38–0.39in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

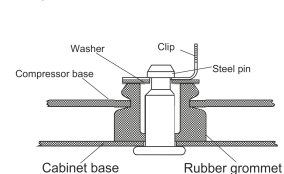
Mounting Accessories



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	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	5.8 A
RLA (rated load amps / 1s/ U(N))	1.1 A
Cut in current (U(N))	10.3 A

Ambient/ machine room temperatures minimum /maximum

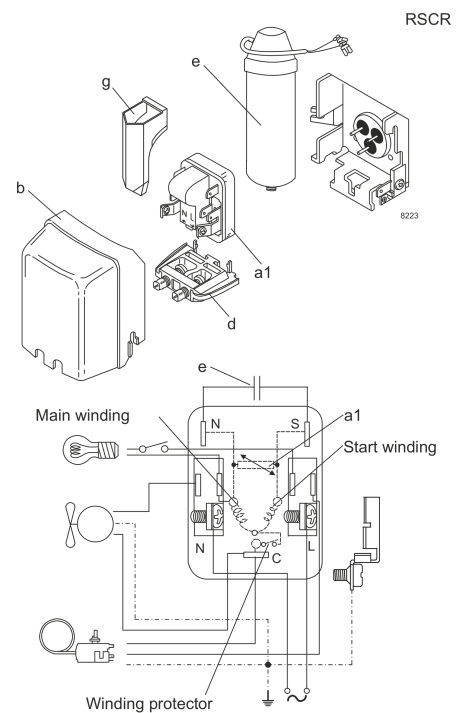
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram


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Components

a1 PTC starter (220V, 250Ohm, 4.8mm) 103N0021

e run capacitor (4 μ F, 4.8mm) 117-7119

b plastic cover 103N2010

d cord relief 103N1010

g protection screen for PTC 103N0476

bracket for run capacitor 117-0300

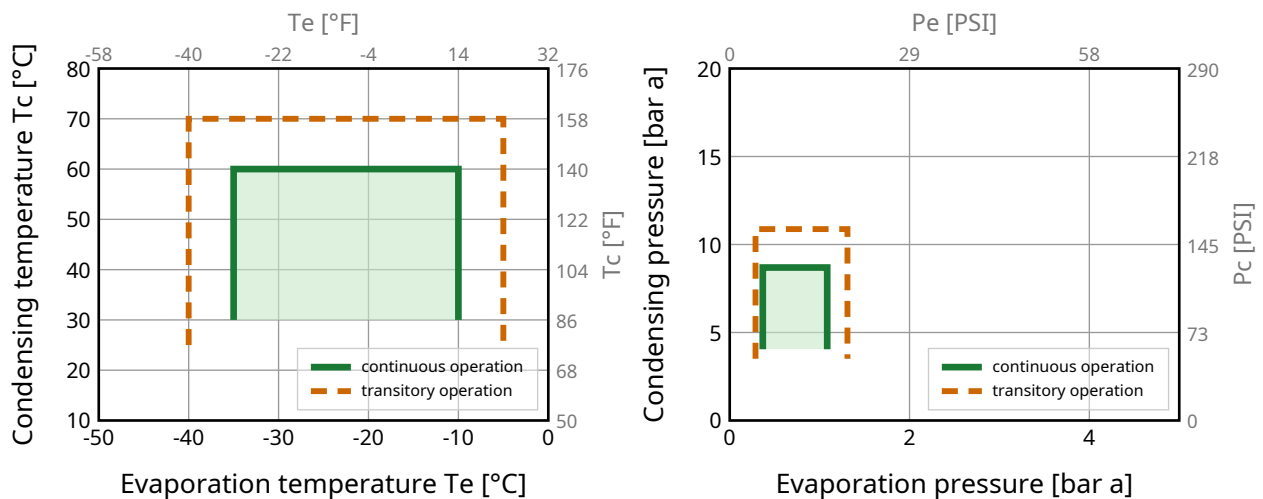
Alternative components

a1 e-PTC starter (220V, 250Ohm, 4.8mm) 103N0050

b plastic cover 103N2011

screw M4x8mm 117-0301

Operation Pressure Range



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Configuration 1

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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	225	769	194	1.50	5.12	150	1.00	2.42	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	170	580	146	1.18	4.03	144	0.97	2.22	CECOMAF LBP
-35 -31	40 104	20 68	40 104	122	417	105	1.13	3.87	108	0.85	1.49	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	184	629	158	1.26	4.29	147	0.98	2.69	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	243	828	209	1.72	5.88	141	0.96	2.61	AHAM LBP
-35 -31	45 113	32 89.6	45 113	117	400	101	1.08	3.67	109	0.85	1.39	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	117	400	101	1.08	3.67	109	0.85	1.39
-30	-22	153	523	132	1.25	4.26	123	0.89	1.82
-25	-13	197	674	170	1.43	4.87	138	0.95	2.35
-20	-4	250	854	215	1.60	5.47	156	1.02	2.99
-15	5	313	1069	270	1.76	6.02	178	1.12	3.74
-10	14	387	1322	333	1.91	6.51	203	1.23	4.64

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

-35	-31	99	337	85	0.91	3.11	108	0.86	1.28
-30	-22	131	447	113	1.04	3.56	126	0.91	1.70
-25	-13	170	580	146	1.18	4.03	144	0.97	2.22
-20	-4	217	741	187	1.32	4.51	164	1.05	2.84
-15	5	274	933	235	1.46	4.98	187	1.16	3.58
-10	14	340	1160	292	1.59	5.41	214	1.27	4.46

Model

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Configuration 2

Sales code:

105H6959

Configuration

Motor configuration	RSIR
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	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	5.8 A
RLA (rated load amps / 1s/ U(N))	1.1 A
Cut in current (U(N))	10.3 A

Ambient/ machine room temperatures minimum /maximum

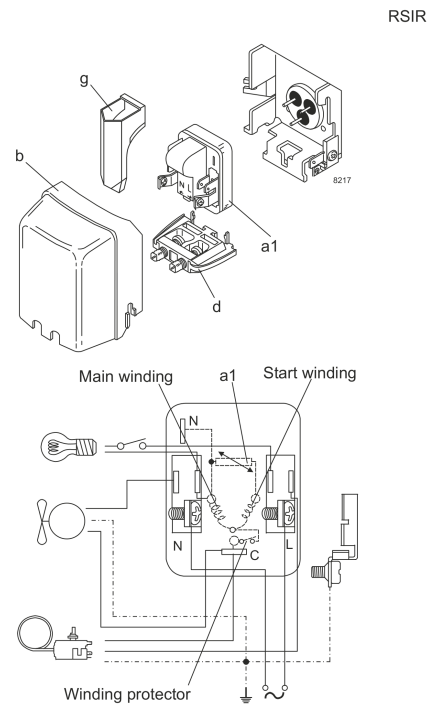
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System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

a1 PTC starter (220V, 250Ohm, 4.8mm) 103N0018

b plastic cover 103N2011

d cord relief 103N1010

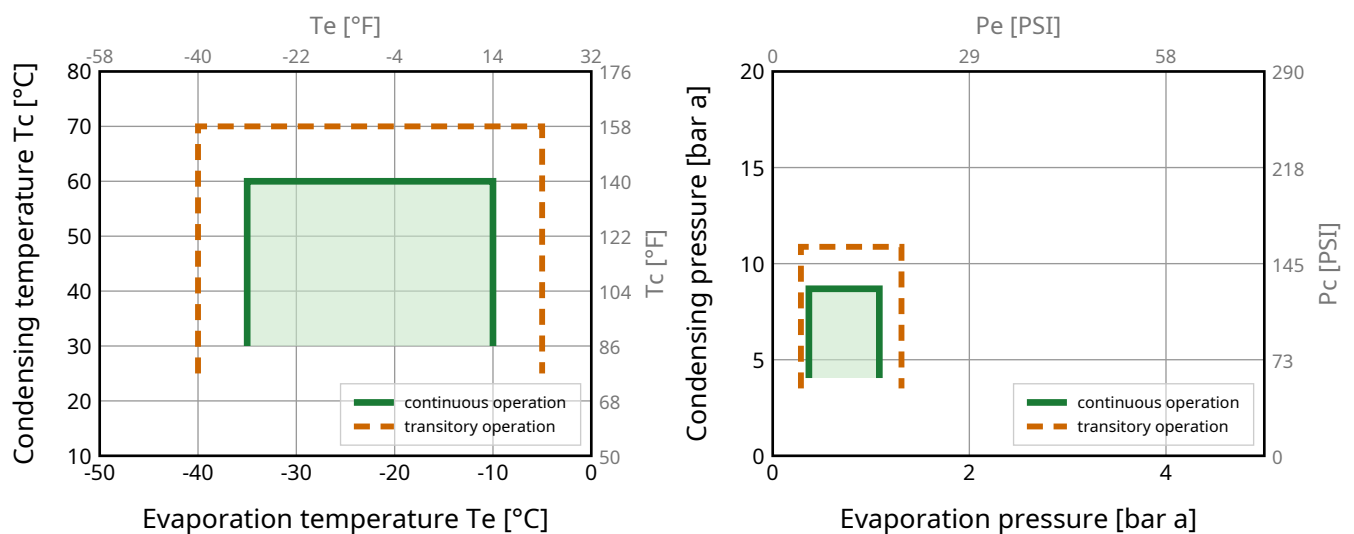
g protection screen for PTC 103N0476

Alternative components

a1 PTC starter (220V, 250Ohm, 6.3mm) 103N0011

b plastic cover 103N2010

Operation Pressure Range



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Configuration 2

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Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

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[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
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