

Model
NLE13KTK

Sales code:
105H5949

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 NLE13KTK

-	Conf. 1	Conf. 2
Motor configuration	RSCR	RSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL	UL
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP
Long interval pull down	OK	OK

Application Notes

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

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Compressor Design

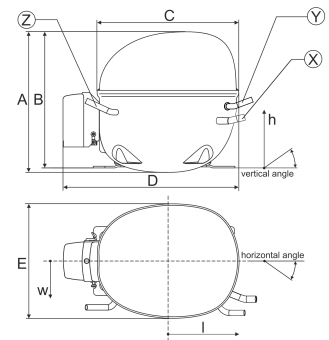
Oil type	AB	Winding resistance aux	3.90 Ohm
Oil viscosity	32cSt	Max. winding temp.	125 °C
Oil quantity	298 / 10.08fl.oz	Max. discharge temp.	130°C / 266°F
Winding resistance main	1.900 Ohm		

Compressor Dimensions

Housing

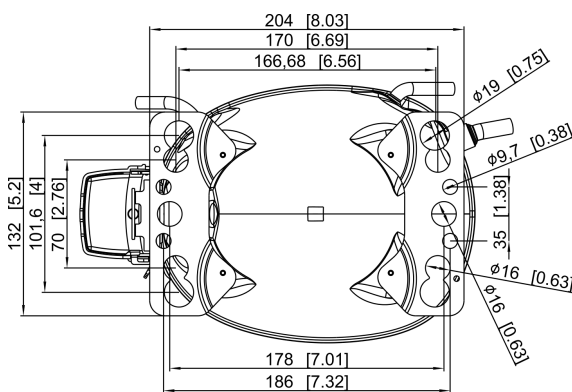
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

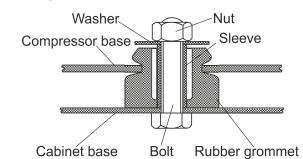


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.41–6.59 / 0.25–0.26in	øi 5.12–5.22 / 0.20–0.21in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

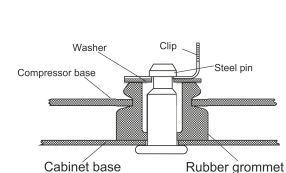
Mounting Accessories



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	-
Bolt joint ø1/4" ø19mm	118-1949	-
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)	115 V/60 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	95-135 V
Starting torque	LST
Approvals	UL
Starting device type	PTC
Run capacitor	15 μF
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

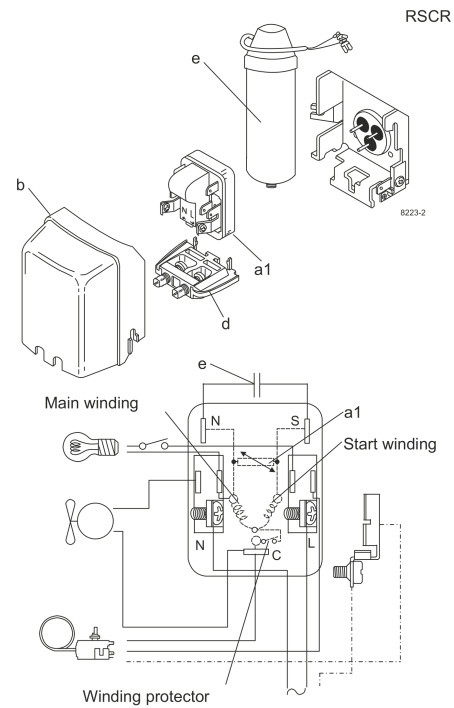
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



Components

a1 PTC starter (115V, 50hm, 4.8mm) 103N0024

e run capacitor (15 μ F, 4.8mm) 117-7120

b plastic cover 103N2011

d cord relief 103N1010

bracket for run capacitor 117-0300

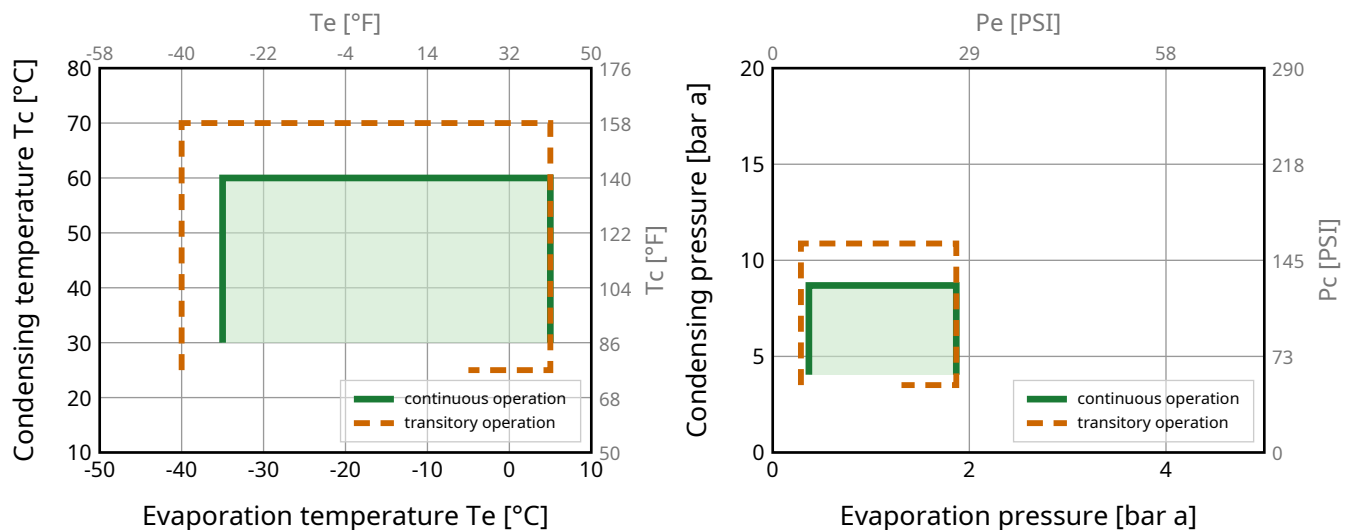
screw M4x8mm 117-0301

Alternative components

a1 PTC starter (115V, 50hm, 6.3mm) 103N0027

e run capacitor (15 μ F, 6.3mm) 117-7118

Operation Pressure Range



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Configuration 1

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Standard Conditions

R600a, 115 V/60 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	226	772	195	1.21	4.12	188	2.68	2.43	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	170	580	146	0.95	3.24	179	2.63	2.21	CECOMAF LBP
-35 -31	40 104	20 68	40 104	117	400	101	0.89	3.02	132	2.39	1.43	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	452	1541	388	1.61	5.51	280	3.29	5.37	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	357	1219	307	1.37	4.69	260	3.16	4.68	CECOMAF MBP
-10 14	45 113	20 68	45 113	389	1329	335	1.54	5.27	252	3.15	5.00	EN12900 MBP

Performance Tables

R600a, 115 V/60 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	113	387	98	0.85	2.91	133	2.39	1.35
-30	-22	147	503	127	0.96	3.27	154	2.50	1.75
-20	-4	252	861	217	1.26	4.32	199	2.78	3.01
-10	14	405	1383	348	1.61	5.49	252	3.15	4.85
0	32	605	2063	520	1.93	6.58	313	3.59	7.28
5	41	721	2461	620	2.07	7.07	348	3.83	8.72

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

-35	-31	100	341	86	0.76	2.60	131	2.39	1.30
-30	-22	129	441	111	0.84	2.86	154	2.50	1.68
-20	-4	222	756	191	1.08	3.70	204	2.79	2.89
-10	14	357	1219	307	1.37	4.69	260	3.16	4.68
0	32	534	1824	460	1.66	5.65	323	3.60	7.05
5	41	638	2178	549	1.78	6.09	358	3.85	8.46

Model

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Configuration 2

Sales code:

105H5949

Configuration

Motor configuration	RSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	95-135 V
Starting torque	LST
Approvals	UL
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

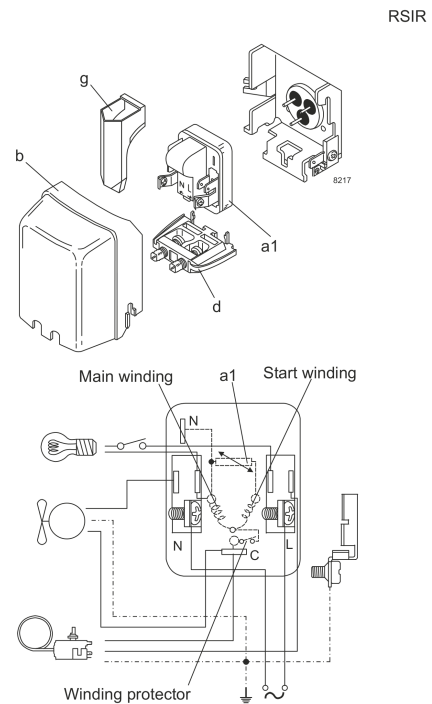
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System Cooling

static

Electrical Accessories / Wiring Diagram


[View full size](#)

Components

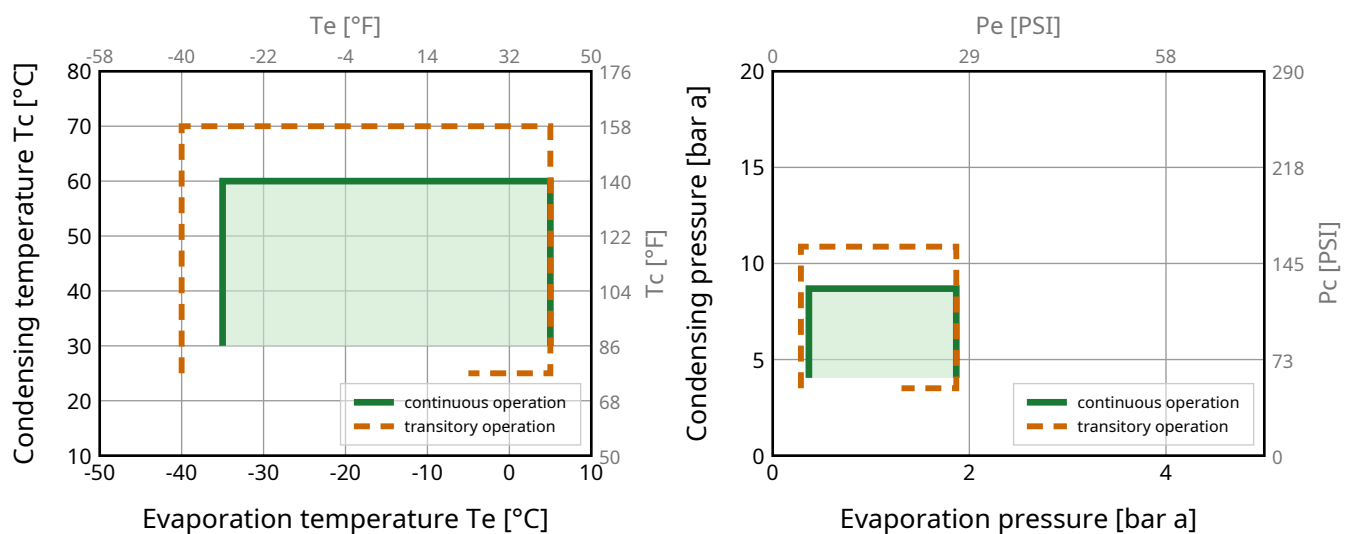
a1 PTC starter (115V, 50Ohm, 4.8mm) 103N0023

b plastic cover 103N2011

d cord relief 103N1010

g protection screen for PTC 103N0476

Operation Pressure Range



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Configuration 2

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