

Model
NLE15KK.4

Sales code:
105H6906

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.80 kg / 23.81lbs
Displacement	14.65 cm³ / 0.89cu.in
Compressors on pallet	80



General – Configurations With NLE15KK.4

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	RSIR	eRSCR	RSCR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1
Voltage range	198-254 V	198-254 V	198-254 V	198-254 V
Approvals	VDE	VDE	VDE	VDE
Starting torque	LST	LST	LST	LST
Refrigerant	R600a	R600a	R600a	R600a
Application	LBP	LBP	LBP	LBP

Application Notes

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

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Compressor Design

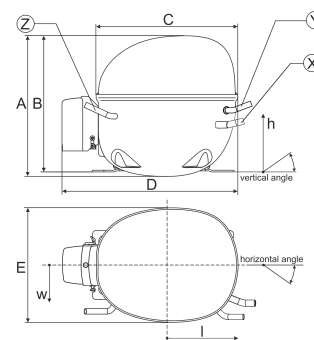
Oil type	Mineral	Winding resistance main	10.700 Ohm
Oil viscosity	15cSt	Winding resistance aux	13.00 Ohm
Oil quantity	265 / 8.96fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,310 cm3 / 78.11fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

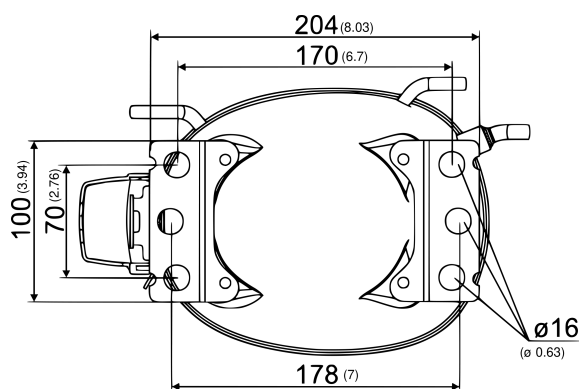
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

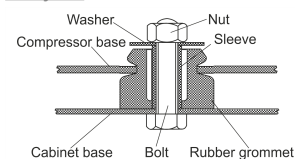


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

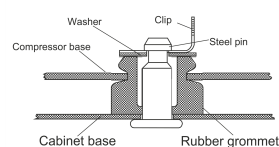
Mounting Accessories



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

Model

NLE15KK.4

Configuration 1

Sales code:

105H6906

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
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	7.9 A
RLA (rated load amps / 1s/ U(N))	1.3 A
Cut in current (U(N))	7.9 A

Ambient/ machine room temperatures minimum /maximum

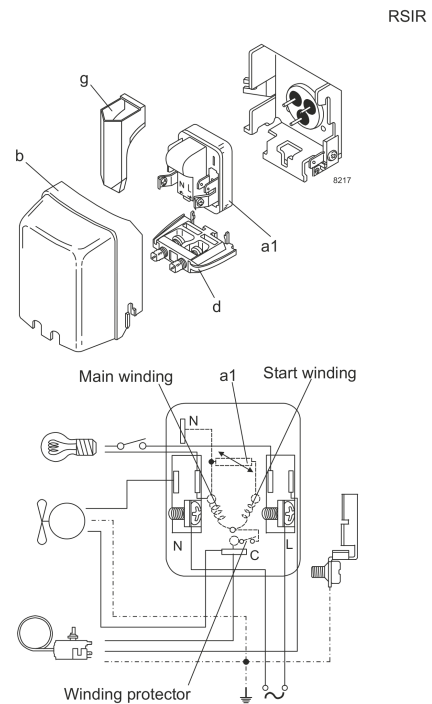
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 103N0018

b plastic cover 103N2010

d cord relief 103N1010

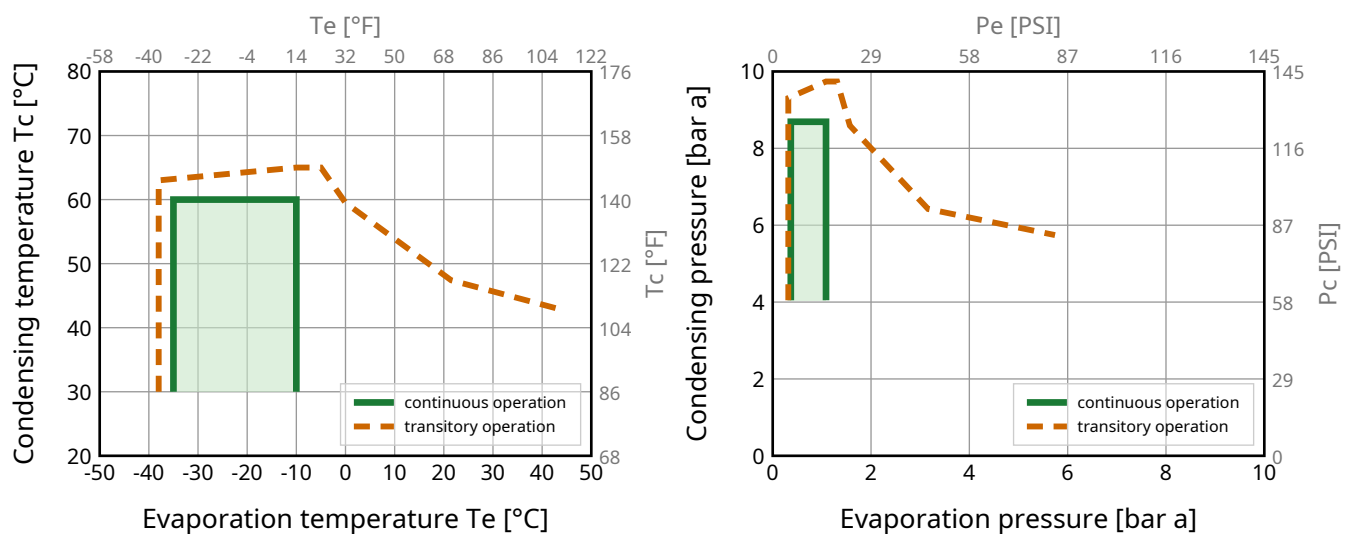
g protection screen for PTC 103N0476

Alternative components

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

b plastic cover 103N2011

Operation Pressure Range



Model
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Configuration 1

Sales code:
105H6906

Standard Conditions

R600a, 220 V/50 Hz, RSIR, 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	252	860	217	1.53	5.22	165	1.09	2.71	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	648	163	1.20	4.10	158	1.07	2.48	CECOMAF LBP
-35 -31	40 104	20 68	40 104	136	464	117	1.15	3.92	118	0.93	1.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	206	704	177	1.28	4.37	161	1.08	3.01	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	272	928	234	1.76	6.00	155	1.06	2.92	AHAM LBP
-25 -13	45 113	32 89.6	45 113	221	754	190	1.46	4.96	152	1.04	2.63	opt LBP

Performance Tables

R600a, 220 V/50 Hz, RSIR, 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	130	445	112	1.09	3.72	120	0.94	1.55
-30	-22	171	584	147	1.27	4.33	135	0.98	2.04
-25	-13	221	754	190	1.46	4.96	152	1.04	2.63
-20	-4	281	958	241	1.64	5.59	171	1.13	3.35
-15	5	352	1200	302	1.81	6.17	195	1.23	4.20
-10	14	435	1485	374	1.95	6.67	223	1.35	5.21

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

-35	-31	110	374	94	0.92	3.15	119	0.94	1.43
-30	-22	146	498	125	1.06	3.61	138	0.99	1.90
-25	-13	190	648	163	1.20	4.10	158	1.07	2.48
-20	-4	243	830	209	1.35	4.61	180	1.16	3.17
-15	5	307	1046	264	1.49	5.10	205	1.27	4.01
-10	14	382	1302	328	1.63	5.55	235	1.40	5.01

Model
NLE15KK.4

Configuration 2

Sales code:
105H6906

Configuration

Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	7.9 A
RLA (rated load amps / 1s/ U(N))	1.3 A
Cut in current (U(N))	7.9 A

Ambient/ machine room temperatures minimum /maximum

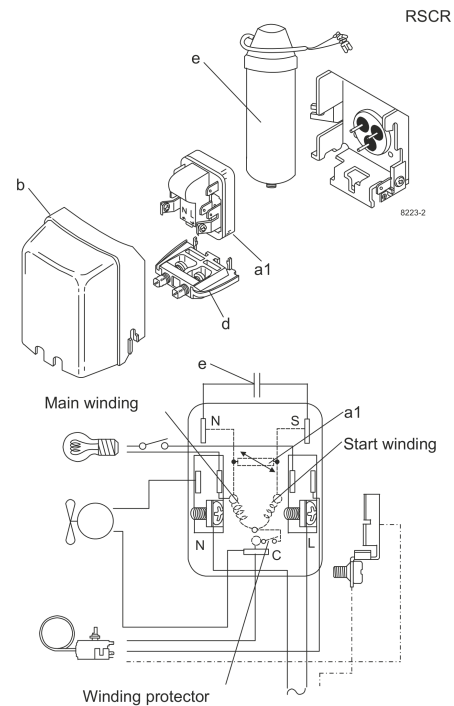
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



Components

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

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

b plastic cover 103N2010

d cord relief 103N1010

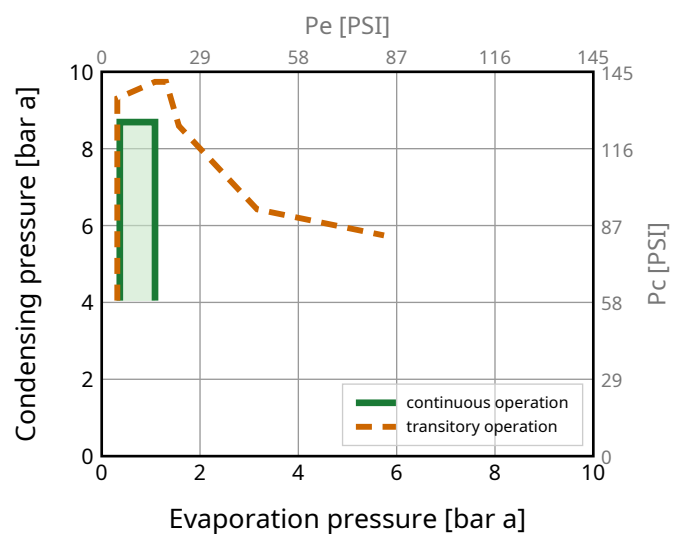
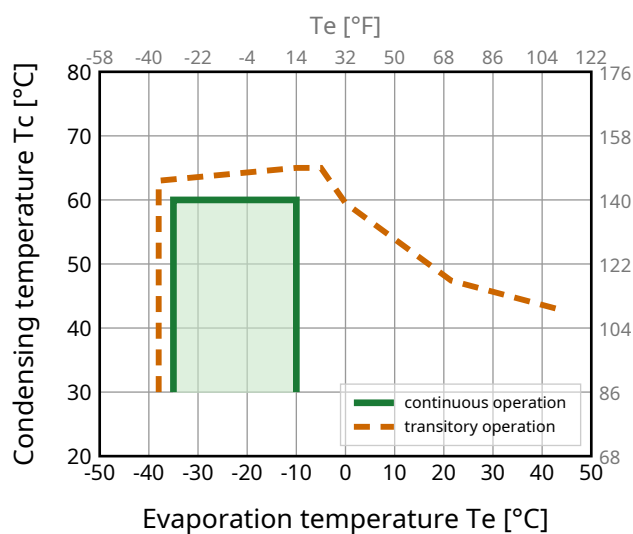
bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Alternative components

b plastic cover 103N2011

Operation Pressure Range



Model
NLE15KK.4

Configuration 2

Sales code:
105H6906

Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	252	860	217	1.59	5.42	159	0.88	2.71	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	648	163	1.25	4.26	152	0.84	2.48	CECOMAF LBP
-35 -31	40 104	20 68	40 104	136	464	117	1.19	4.06	114	0.65	1.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	206	704	177	1.33	4.54	155	0.86	3.01	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	272	928	234	1.83	6.23	149	0.83	2.92	AHAM LBP
-25 -13	45 113	32 89.6	45 113	221	754	190	1.51	5.15	146	0.82	2.63	opt LBP

Performance Tables

R600a, 220 V/50 Hz, eRSCR, 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	130	445	112	1.13	3.85	116	0.66	1.55
-30	-22	171	584	147	1.31	4.48	130	0.73	2.04
-25	-13	221	754	190	1.51	5.15	146	0.82	2.63
-20	-4	281	958	241	1.71	5.82	165	0.92	3.35
-15	5	352	1200	302	1.89	6.46	186	1.03	4.20
-10	14	435	1485	374	2.07	7.06	210	1.16	5.21

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

-35	-31	110	374	94	0.95	3.26	115	0.66	1.43
-30	-22	146	498	125	1.10	3.74	133	0.75	1.90
-25	-13	190	648	163	1.25	4.26	152	0.84	2.48
-20	-4	243	830	209	1.41	4.80	173	0.95	3.17
-15	5	307	1046	264	1.56	5.34	196	1.08	4.01
-10	14	382	1302	328	1.72	5.85	223	1.22	5.01

Model

NLE15KK.4

Configuration 3

Sales code:

105H6906

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
Starting device type	PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	7.9 A
RLA (rated load amps / 1s/ U(N))	1.3 A
Cut in current (U(N))	7.9 A

Ambient/ machine room temperatures minimum /maximum

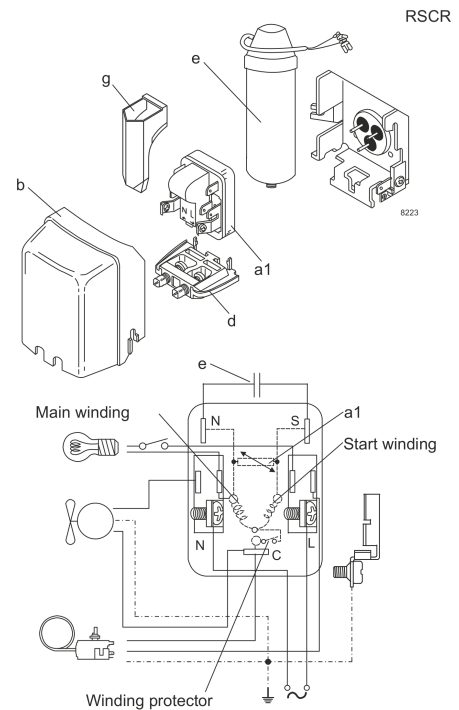
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



[View full size](#)

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

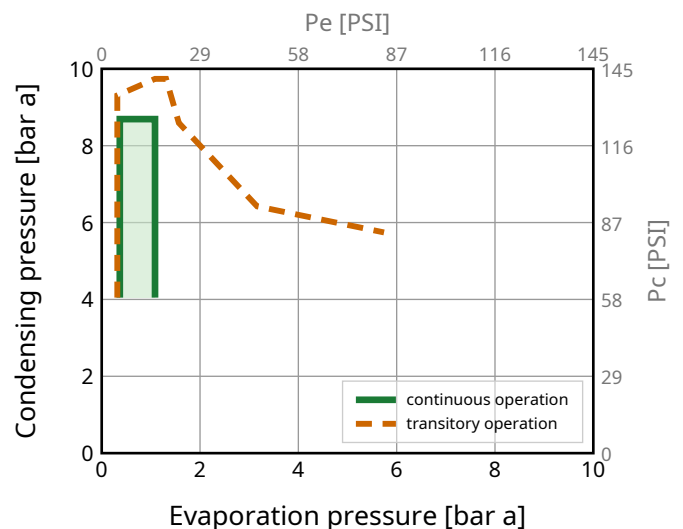
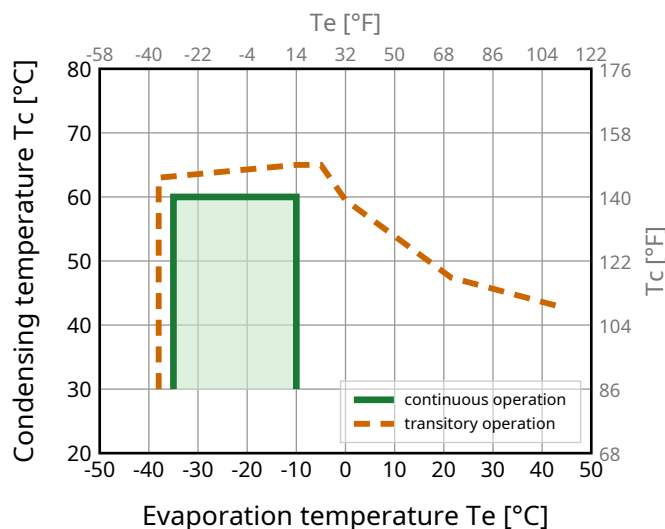
g protection screen for PTC 103N0476

bracket for run capacitor 117-0300

Alternative components

b plastic cover 103N2011

Operation Pressure Range



Model

NLE15KK.4

Configuration 3

Sales code:

105H6906

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	252	860	217	1.59	5.42	159	0.88	2.71	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	648	163	1.25	4.26	152	0.84	2.48	CECOMAF LBP
-35 -31	40 104	20 68	40 104	136	464	117	1.19	4.06	114	0.65	1.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	206	704	177	1.33	4.54	155	0.86	3.01	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	272	928	234	1.83	6.23	149	0.83	2.92	AHAM LBP
-25 -13	45 113	32 89.6	45 113	221	754	190	1.51	5.15	146	0.82	2.63	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	130	445	112	1.13	3.85	116	0.66	1.55
-30	-22	171	584	147	1.31	4.48	130	0.73	2.04
-25	-13	221	754	190	1.51	5.15	146	0.82	2.63
-20	-4	281	958	241	1.71	5.82	165	0.92	3.35
-15	5	352	1200	302	1.89	6.46	186	1.03	4.20
-10	14	435	1485	374	2.07	7.06	210	1.16	5.21

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

-35	-31	110	374	94	0.95	3.26	115	0.66	1.43
-30	-22	146	498	125	1.10	3.74	133	0.75	1.90
-25	-13	190	648	163	1.25	4.26	152	0.84	2.48
-20	-4	243	830	209	1.41	4.80	173	0.95	3.17
-15	5	307	1046	264	1.56	5.34	196	1.08	4.01
-10	14	382	1302	328	1.72	5.85	223	1.22	5.01

Model

NLE15KK.4

Configuration 4

Sales code:

105H6906

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
Starting device type	PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	7.9 A
RLA (rated load amps / 1s/ U(N))	1.3 A
Cut in current (U(N))	7.9 A

Ambient/ machine room temperatures minimum /maximum

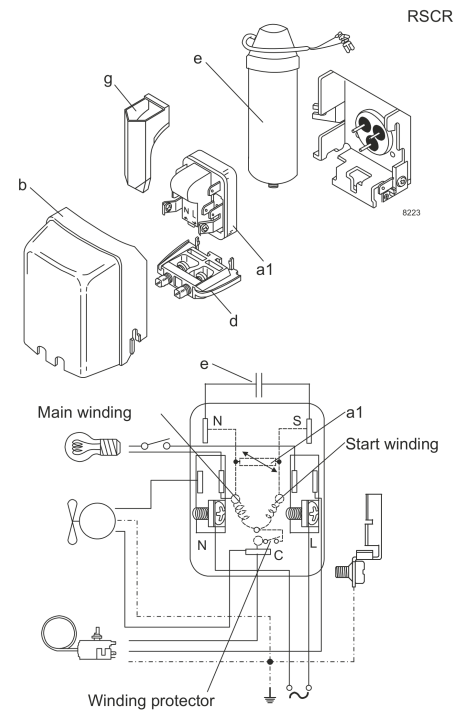
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram


[View full size](#)

Components

a1 PTC starter (220V, 250Ohm, 6.3mm) 103N0016

e run capacitor (4 μ F, 6.3mm) 117-7117

b plastic cover 103N2010

d cord relief 103N1010

g protection screen for PTC 103N0476

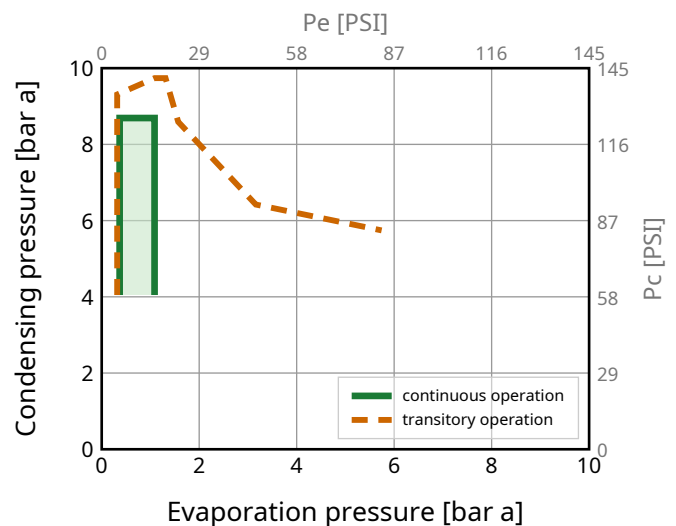
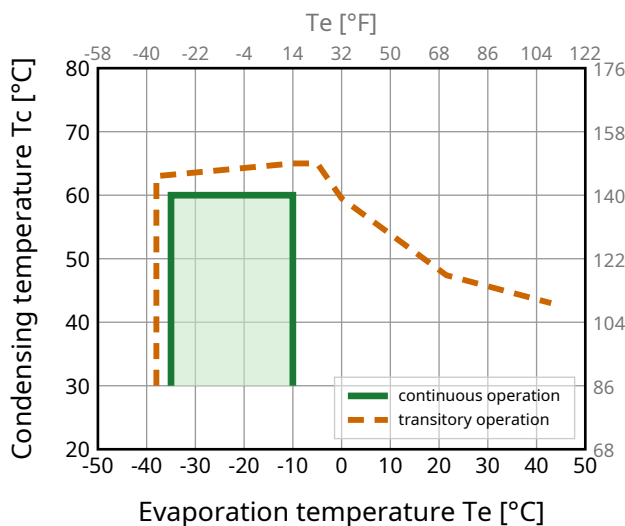
bracket for run capacitor 117-0300

Alternative components

b plastic cover 103N2011

screw M4x8mm 117-0301

Operation Pressure Range



Model
NLE15KK.4

Configuration 4

Sales code:
105H6906

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	252	860	217	1.59	5.42	159	0.88	2.71	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	190	648	163	1.25	4.26	152	0.84	2.48	CECOMAF LBP
-35 -31	40 104	20 68	40 104	136	464	117	1.19	4.06	114	0.65	1.66	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	206	704	177	1.33	4.54	155	0.86	3.01	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	272	928	234	1.83	6.23	149	0.83	2.92	AHAM LBP
-25 -13	45 113	32 89.6	45 113	221	754	190	1.51	5.15	146	0.82	2.63	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	130	445	112	1.13	3.85	116	0.66	1.55
-30	-22	171	584	147	1.31	4.48	130	0.73	2.04
-25	-13	221	754	190	1.51	5.15	146	0.82	2.63
-20	-4	281	958	241	1.71	5.82	165	0.92	3.35
-15	5	352	1200	302	1.89	6.46	186	1.03	4.20
-10	14	435	1485	374	2.07	7.06	210	1.16	5.21

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

-35	-31	110	374	94	0.95	3.26	115	0.66	1.43
-30	-22	146	498	125	1.10	3.74	133	0.75	1.90
-25	-13	190	648	163	1.25	4.26	152	0.84	2.48
-20	-4	243	830	209	1.41	4.80	173	0.95	3.17
-15	5	307	1046	264	1.56	5.34	196	1.08	4.01
-10	14	382	1302	328	1.72	5.85	223	1.22	5.01