Single
Packs

SECOP

Single Pack NLE15KK.4 220-240V 50Hz RSIR

Single pack code number: **195B4794**

Position	Title	Code	Amount
1	Compressor NLE15KK.4	105H6906	1
2	PTC starting device (220V, 250hm, 4.8mm)	103N0018	1
3	Cord relief	103N1010	1
4	Cover	103N2010	1
5	Protection screen for PTC	103N0476	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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

Model
NLE15KK.4

Sales code:
105H6906

Compressor Design

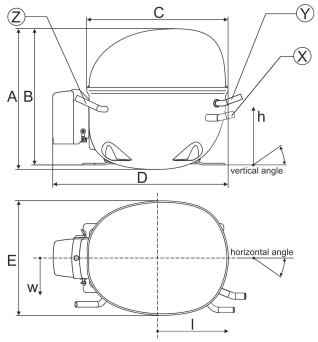
Oil type	**Mineral**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**15cSt**	Winding resistance aux	**13 Ohm**
Oil quantity	**265 / 8.96fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,310 cm3 / 78.11fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

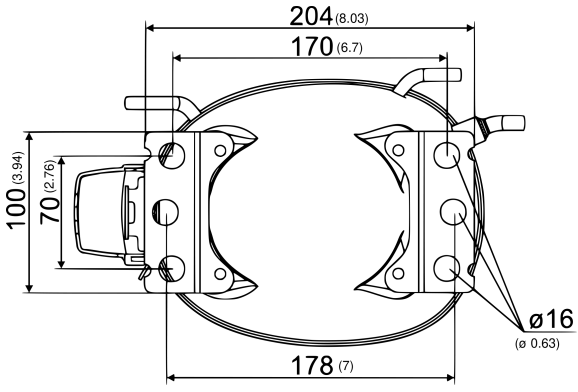
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



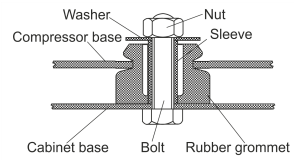
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

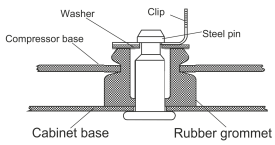


Dimensions in mm [in]

Bolt joint



Snap-on



	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

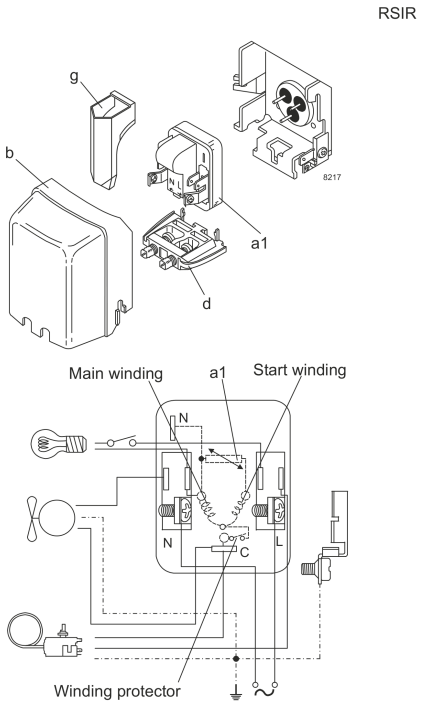
Configuration

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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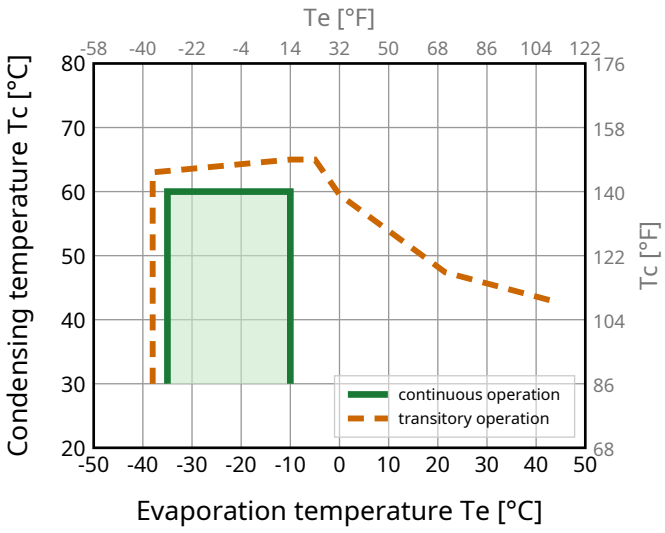
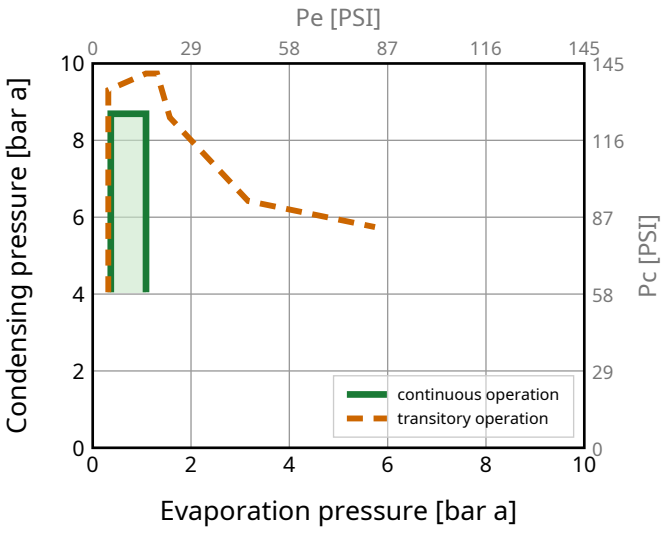
Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0018
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476

Alternative components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0011
b plastic cover 103N2011

Operation Pressure Range





Model Sales code:

NLE15KK.4 Configuration 1 **105H6906**

Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**130**	445	112	**1.09**	3.72	120	0.94	1.55	**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	ṁ
[°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

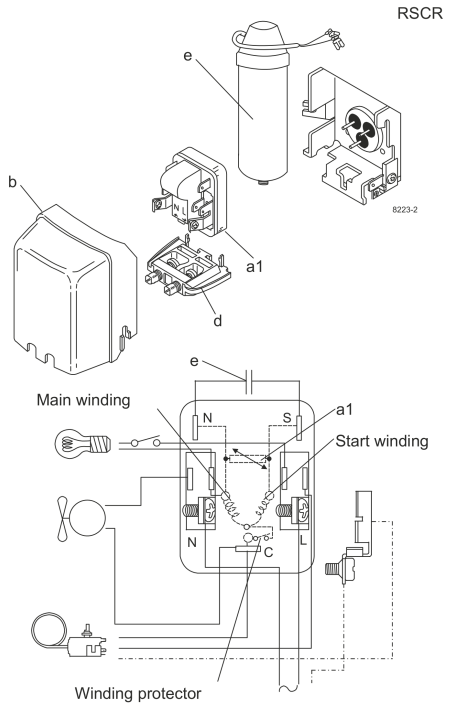
Configuration

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

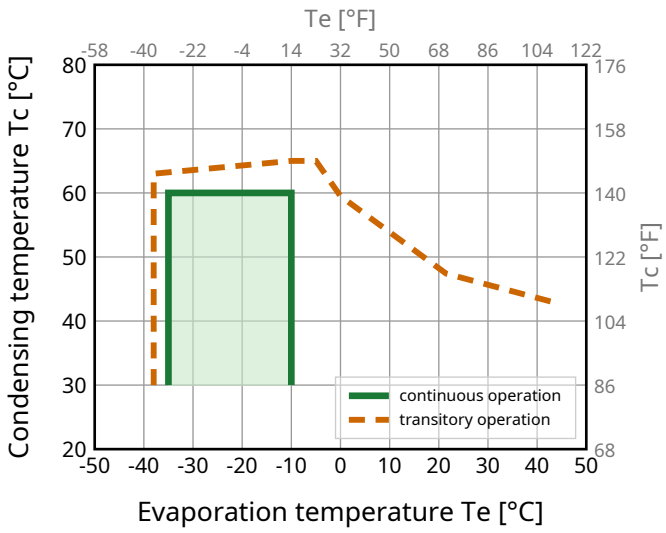
Electrical Accessories / Wiring Diagram

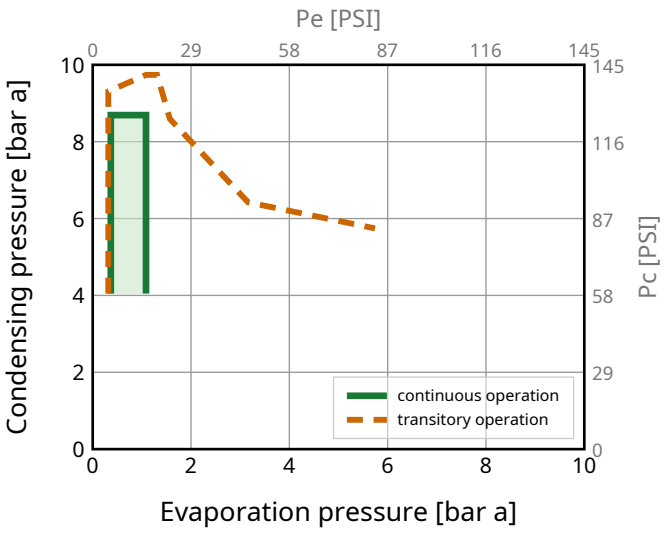


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

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	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**130**	445	112	**1.13**	3.85	116	0.66	1.55	**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	ṁ
[°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

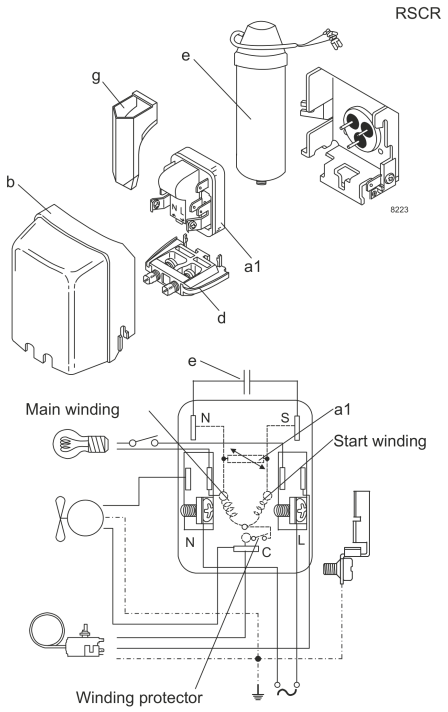
Configuration

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



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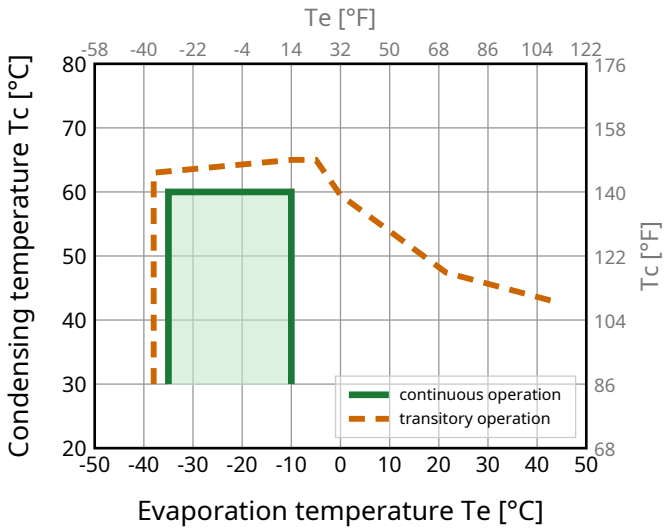
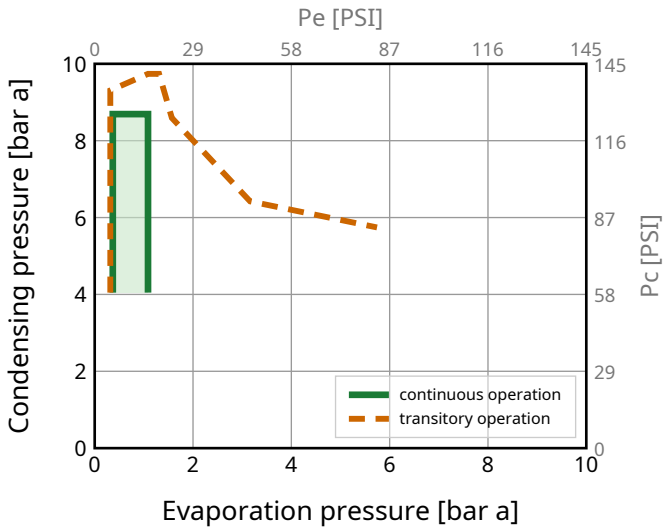
Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0021
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476
bracket for run capacitor 117-0300

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	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**130**	445	112	**1.13**	3.85	116	0.66	1.55	**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	ṁ
[°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

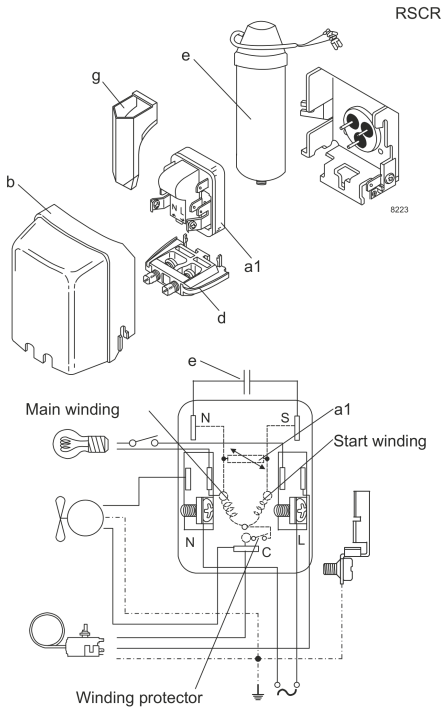
Configuration

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



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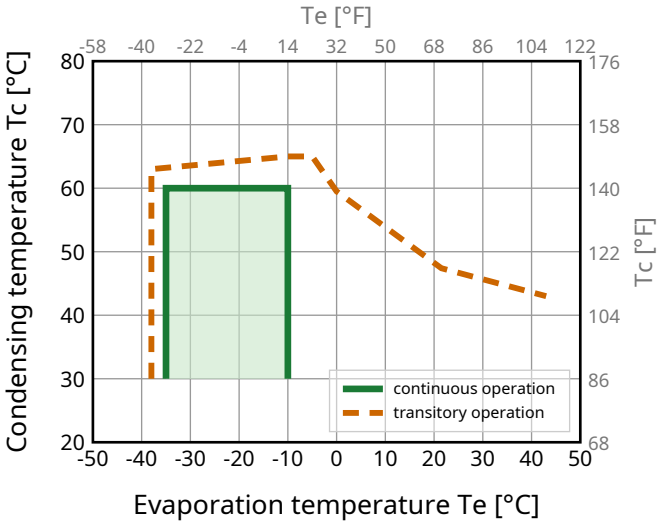
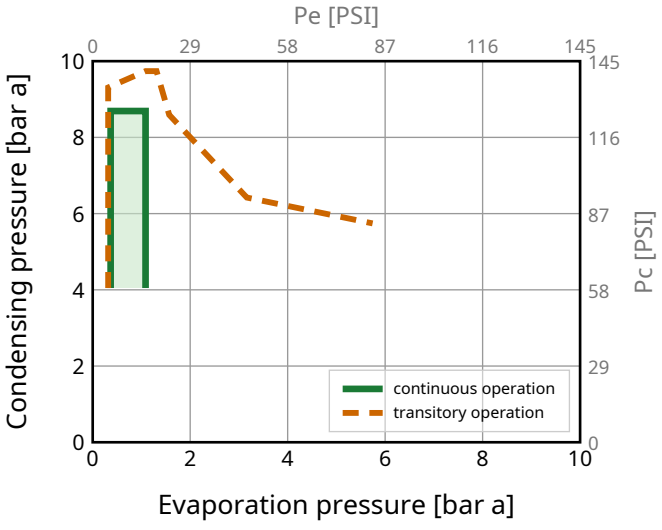
Components
a1 PTC starter (220V, 25Ohm, 6.3mm) 103N0016
e run capacitor (4µF, 6.3mm) 117-7117
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476
bracket for run capacitor 117-0300

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	ṁ	
[°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**
-35 -31	45 113	32 89.6	45 113	**130**	445	112	**1.13**	3.85	116	0.66	1.55	**opt LBP**

Performance Tables

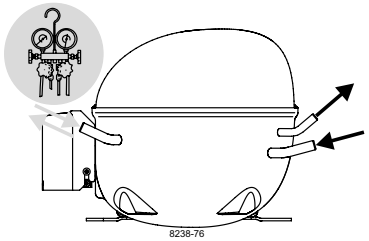
R600a, 220 V/50 Hz, RSCR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



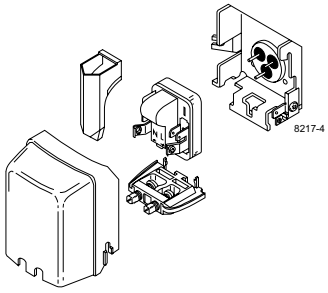
NL Compressors

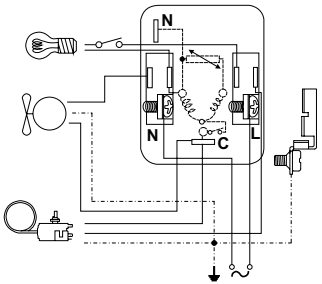
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

RSIR





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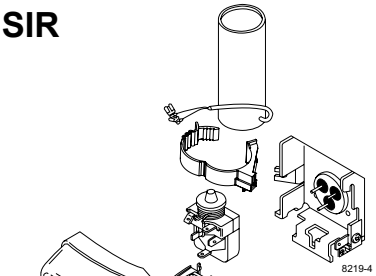
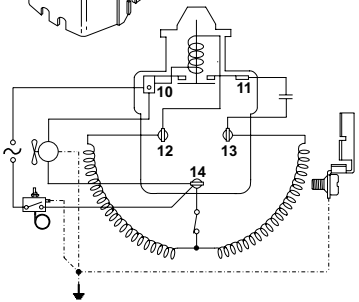
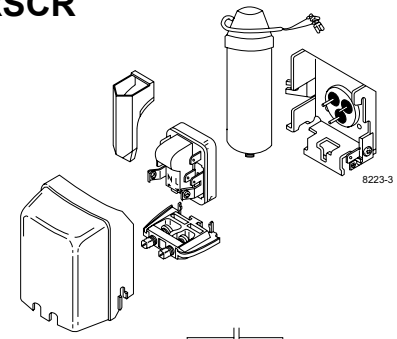
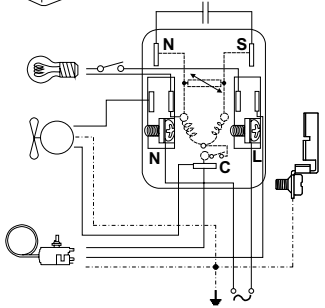
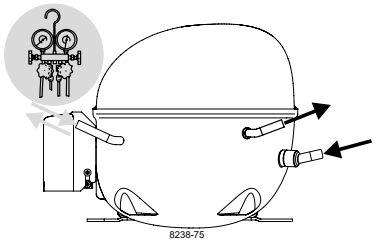




RSCR







NL Compressors

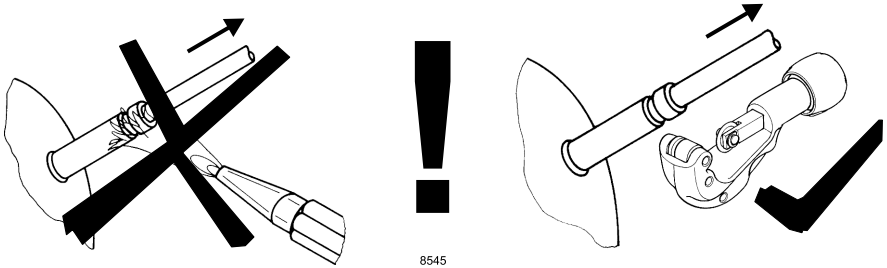
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

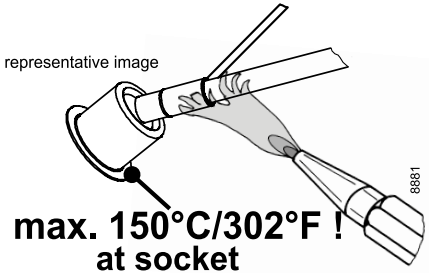
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Brazing on Suction Connectors (Direct Intake)

representative image



! 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)

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**