Single
Packs

Single Pack NLE10MF.2 220-240V 50Hz RSCR

Single pack code number: **195B4280**

Position	Title	Code	Amount
1	Compressor NLE10MF.2	105G6187	1
2	e-PTC starting device (220V, 25Ohm, 4.8mm)	103N0050	1
3	Run capacitor holder	117-0300	1
4	Run capacitor (4µF 320V, 4.8mm)	117-7119	1
5	Cord relief	103N1010	1
6	Cover	103N2010	1
7	Screw for bracket M4x8mm	117-0301	1
8	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
NLE10MF.2

Sales code:
105G6187

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**600g / 21.16oz**
Weight	**10.90 kg / 24.03lbs**
Displacement	**10.09 cm3 / 0.62cu.in**
Compressors on pallet	**80**

General – Configurations With NLE10MF.2

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5	Conf. 6
Motor configuration	CSIR	eRSIR	eRSCR	CSIR	eRSCR	eRSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	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	1	1
Voltage range	198-254 V	198-254 V	198-254 V	198-254 V	198-254 V	198-254 V
Approvals	VDE	VDE	VDE	VDE	VDE	VDE
Starting torque	HST	LST	LST	HST	LST	LST
Refrigerant	R134a	R134a	R134a	R513A	R513A	R513A
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK	OK

Application Notes

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

Model
NLE10MF.2

Sales code:
105G6187

Compressor Design

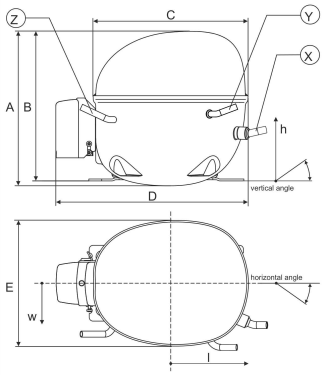
Oil type	**POE**	Winding resistance main	**9.28 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**11.64 Ohm**
Oil quantity	**300 cm3 / 10.14fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**110°C / 230°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

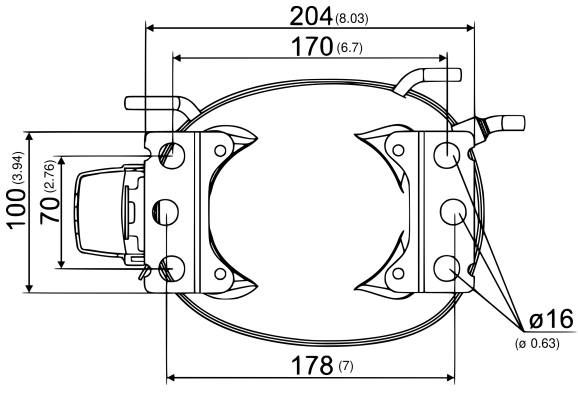
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



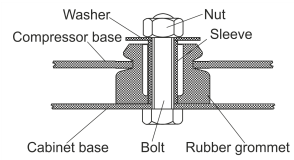
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

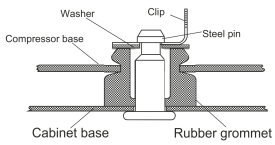


Dimensions in mm [in]

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
NLE10MF.2 Configuration 1

Sales code:
105G6187

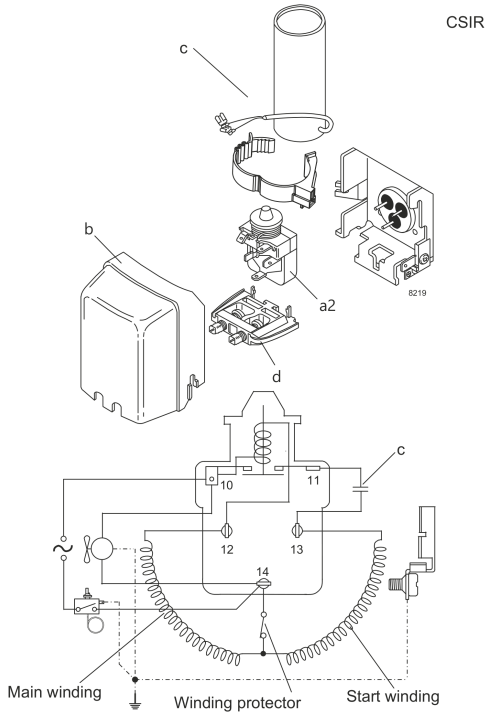
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

Electrical Accessories / Wiring Diagram

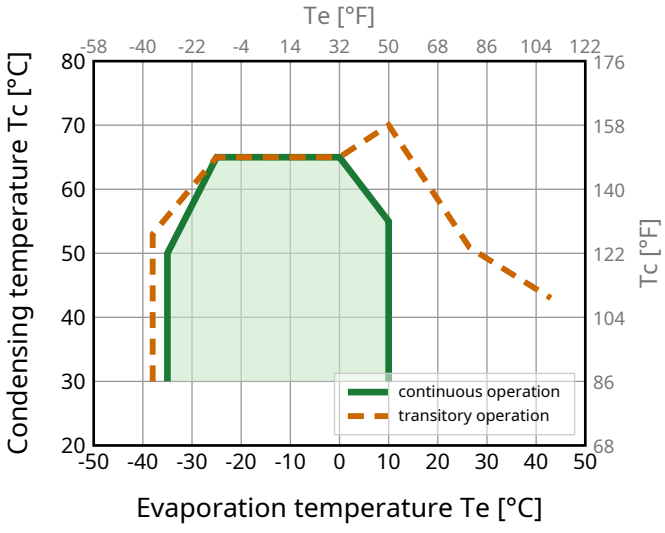


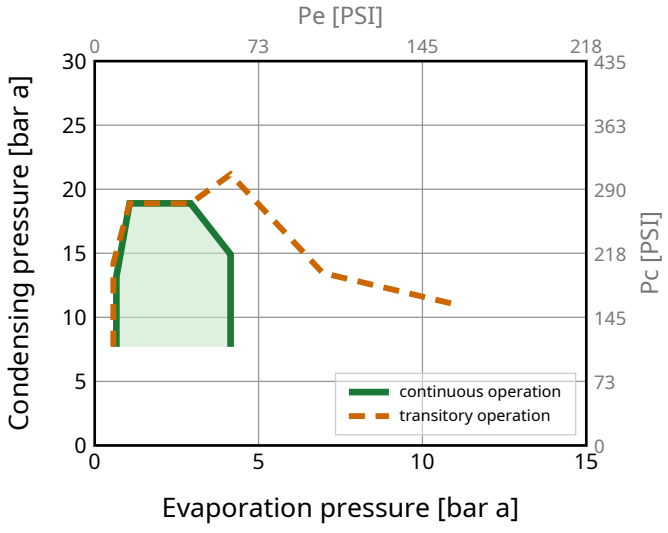
View full size

Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE10MF.2 Configuration 1

Sales code:
105G6187

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 3m/s

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	**289**	986	249	**1.45**	4.94	200	1.54	5.61	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**210**	718	181	**1.12**	3.82	188	1.51	5.02	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**152**	517	130	**1.06**	3.63	142	1.43	3.32	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**608**	2073	523	**1.94**	6.62	313	1.89	13.23	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**471**	1607	405	**1.62**	5.53	290	1.81	11.36	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**537**	1832	462	**1.99**	6.79	270	1.75	12.52	**EN12900 MBP**

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 3m/s

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	**134**	458	115	**0.94**	3.20	143	1.43	2.89
-30	-22	**194**	661	166	**1.17**	3.98	166	1.47	4.18
-20	-4	**344**	1173	296	**1.60**	5.45	215	1.58	7.46
-10	14	**556**	1897	478	**2.06**	7.04	270	1.75	12.14
0	32	**854**	2913	734	**2.59**	8.83	330	1.96	18.84
10	50	**1261**	4304	1085	**3.17**	10.82	398	2.20	28.23

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

-35	-31	**94**	319	80	**0.75**	2.56	125	1.40	2.22
-30	-22	**148**	506	128	**0.95**	3.25	156	1.45	3.53
-20	-4	**283**	966	243	**1.28**	4.37	221	1.59	6.77
-10	14	**471**	1607	405	**1.62**	5.53	290	1.81	11.36
0	32	**737**	2513	633	**2.02**	6.88	365	2.08	17.96
10	50	**1103**	3764	949	**2.47**	8.43	447	2.40	27.33

Model
NLE10MF.2 Configuration 2

Sales code:
105G6187

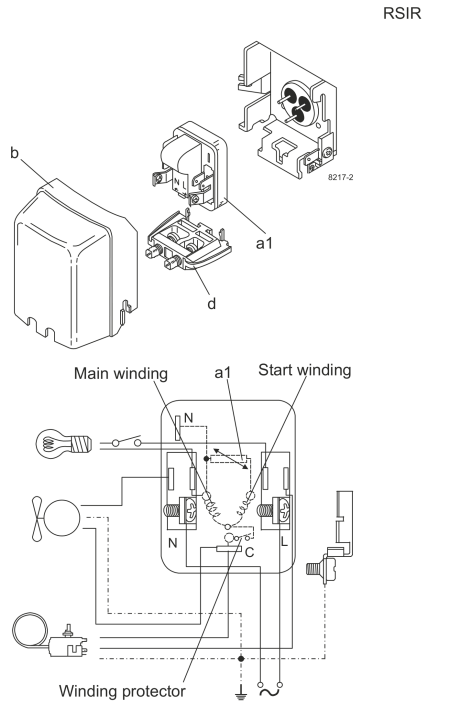
Configuration

Motor configuration	**eRSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

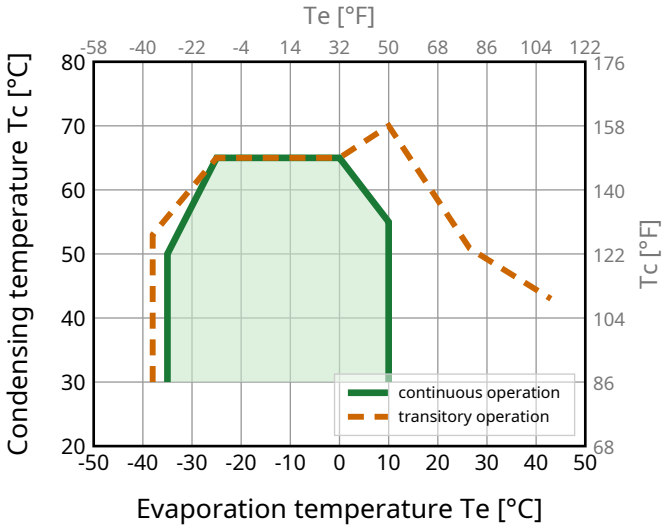
Electrical Accessories / Wiring Diagram

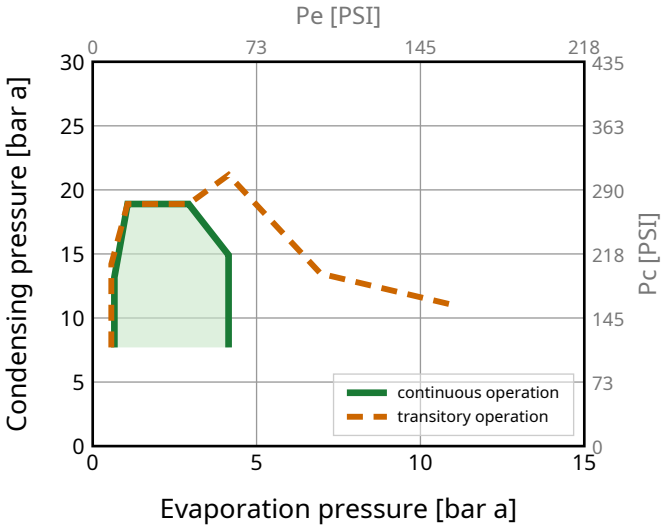


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE10MF.2 Configuration 2

Sales code:
105G6187

Standard Conditions

R134a, 220 V/50 Hz, eRSIR, fan 3m/s

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	**289**	986	249	**1.45**	4.94	200	1.54	5.61	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**210**	718	181	**1.12**	3.82	188	1.51	5.02	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**152**	517	130	**1.06**	3.63	142	1.43	3.32	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**608**	2073	523	**1.94**	6.62	313	1.89	13.23	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**471**	1607	405	**1.62**	5.53	290	1.81	11.36	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**537**	1832	462	**1.99**	6.79	270	1.75	12.52	**EN12900 MBP**

Performance Tables

R134a, 220 V/50 Hz, eRSIR, fan 3m/s

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	**134**	458	115	**0.94**	3.20	143	1.43	2.89
-30	-22	**194**	661	166	**1.17**	3.98	166	1.47	4.18
-20	-4	**344**	1173	296	**1.60**	5.45	215	1.58	7.46
-10	14	**556**	1897	478	**2.06**	7.04	270	1.75	12.14
0	32	**854**	2913	734	**2.59**	8.83	330	1.96	18.84
10	50	**1261**	4304	1085	**3.17**	10.82	398	2.20	28.23

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

-35	-31	**94**	319	80	**0.75**	2.56	125	1.40	2.22
-30	-22	**148**	506	128	**0.95**	3.25	156	1.45	3.53
-20	-4	**283**	966	243	**1.28**	4.37	221	1.59	6.77
-10	14	**471**	1607	405	**1.62**	5.53	290	1.81	11.36
0	32	**737**	2513	633	**2.02**	6.88	365	2.08	17.96
10	50	**1103**	3764	949	**2.47**	8.43	447	2.40	27.33

Model
NLE10MF.2 Configuration 3

Sales code:
105G6187

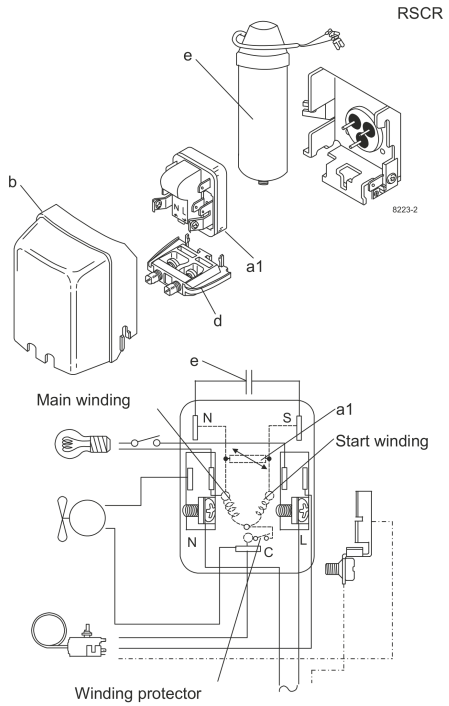
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
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))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

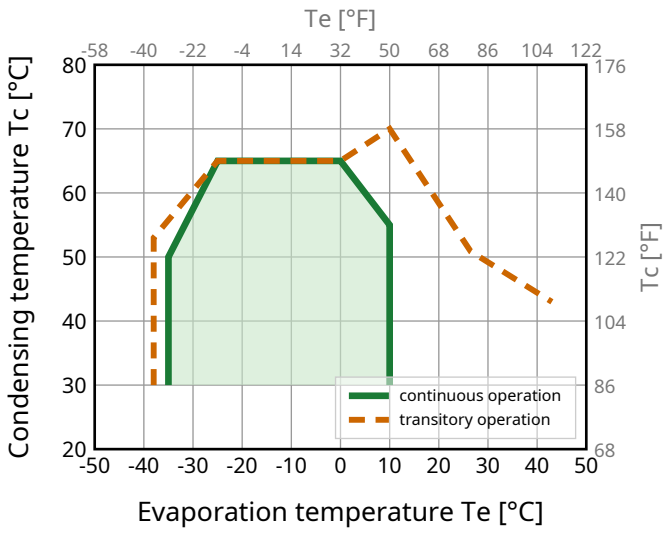
Electrical Accessories / Wiring Diagram

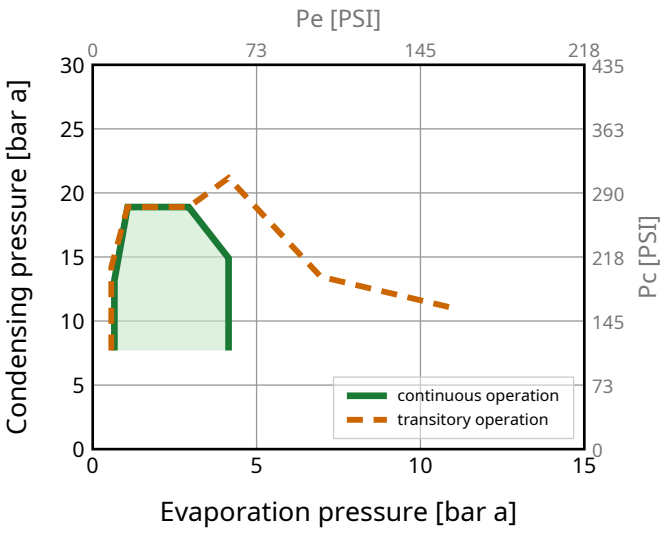


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE10MF.2 Configuration 3

Sales code:
105G6187

Standard Conditions

R134a, 220 V/50 Hz, eRSCR, fan 3m/s

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	**289**	985	248	**1.52**	5.20	190	1.46	5.60	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**210**	717	181	**1.18**	4.02	178	1.43	5.01	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**152**	517	130	**1.12**	3.82	135	1.36	3.31	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**607**	2071	522	**2.04**	6.97	297	1.79	13.22	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**471**	1606	405	**1.71**	5.83	276	1.71	11.35	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**536**	1830	461	**2.10**	7.15	256	1.66	12.50	**EN12900 MBP**

Performance Tables

R134a, 220 V/50 Hz, eRSCR, fan 3m/s

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	**134**	458	115	**0.99**	3.37	136	1.36	2.89
-30	-22	**193**	660	166	**1.23**	4.19	158	1.39	4.17
-20	-4	**344**	1172	295	**1.68**	5.74	204	1.50	7.45
-10	14	**555**	1895	478	**2.17**	7.41	256	1.66	12.13
0	32	**853**	2910	733	**2.72**	9.29	313	1.86	18.82
10	50	**1260**	4299	1084	**3.34**	11.39	377	2.09	28.20

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

-35	-31	**93**	319	80	**0.79**	2.70	118	1.33	2.22
-30	-22	**148**	505	127	**1.00**	3.42	148	1.37	3.52
-20	-4	**283**	965	243	**1.35**	4.60	210	1.51	6.76
-10	14	**471**	1606	405	**1.71**	5.83	276	1.71	11.35
0	32	**736**	2511	633	**2.12**	7.24	347	1.97	17.94
10	50	**1102**	3760	948	**2.60**	8.87	424	2.28	27.30

Model
NLE10MF.2 Configuration 4

Sales code:
105G6187

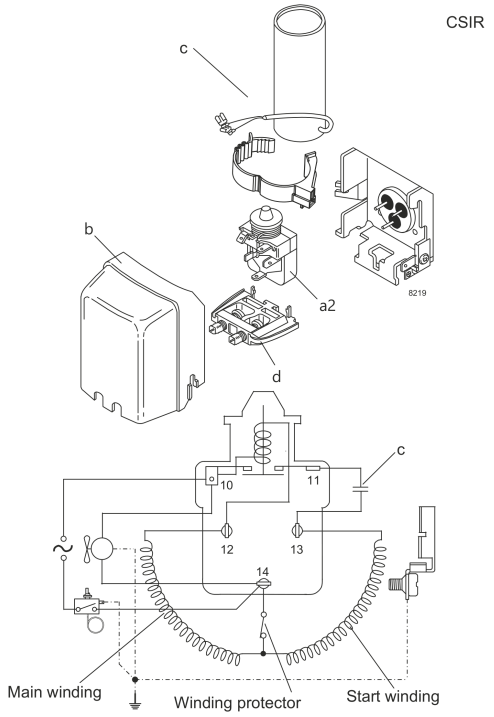
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

Electrical Accessories / Wiring Diagram

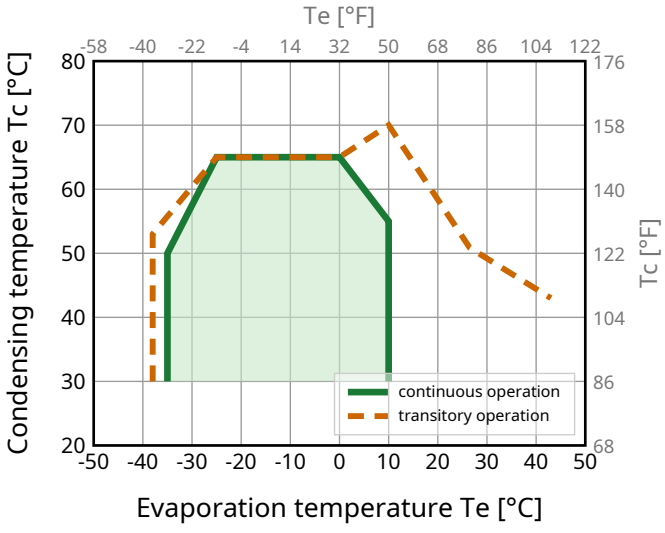


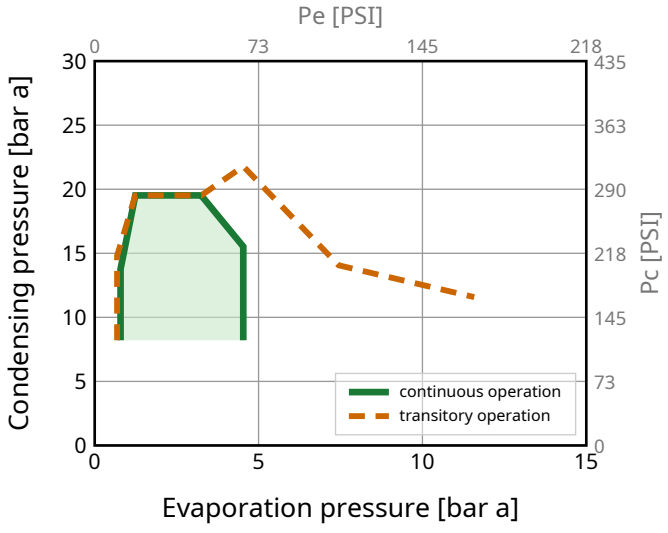
View full size

Components
a2 assy. relay 117U6002
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE10MF.2 Configuration 4

Sales code:
105G6187

Standard Conditions

R513A, 220 V/50 Hz, CSIR, fan 3m/s

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	**321**	1095	276	**1.48**	5.05	217	1.63	7.03	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**228**	779	196	**1.12**	3.81	205	1.60	6.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**170**	582	147	**1.09**	3.72	156	1.46	4.29	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**638**	2178	549	**1.92**	6.55	332	1.97	15.91	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**490**	1672	421	**1.58**	5.40	310	1.90	13.75	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**559**	1908	481	**1.95**	6.65	287	1.83	15.14	**EN12900 MBP**

Performance Tables

R513A, 220 V/50 Hz, CSIR, fan 3m/s

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	**153**	522	132	**0.97**	3.32	158	1.46	3.77
-30	-22	**216**	736	185	**1.19**	4.06	181	1.53	5.32
-20	-4	**371**	1266	319	**1.60**	5.47	232	1.68	9.21
-10	14	**587**	2001	504	**2.05**	6.98	287	1.83	14.68
0	32	**886**	3022	762	**2.55**	8.70	347	2.01	22.43
10	50	**1292**	4407	1111	**3.11**	10.62	415	2.21	33.27

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

-35	-31	**107**	366	92	**0.77**	2.64	139	1.41	2.95
-30	-22	**164**	561	141	**0.96**	3.27	171	1.50	4.54
-20	-4	**302**	1030	260	**1.26**	4.32	239	1.70	8.39
-10	14	**490**	1672	421	**1.58**	5.40	310	1.90	13.75
0	32	**752**	2564	646	**1.95**	6.65	385	2.12	21.37
10	50	**1110**	3789	955	**2.38**	8.11	467	2.36	32.17

Model
NLE10MF.2 Configuration 5

Sales code:
105G6187

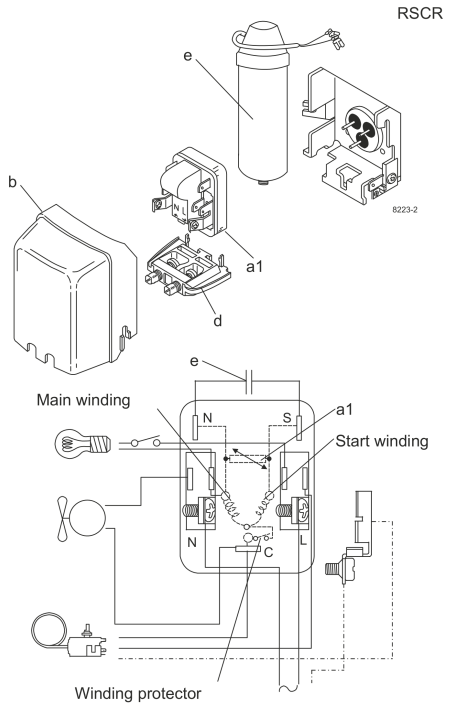
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
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))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

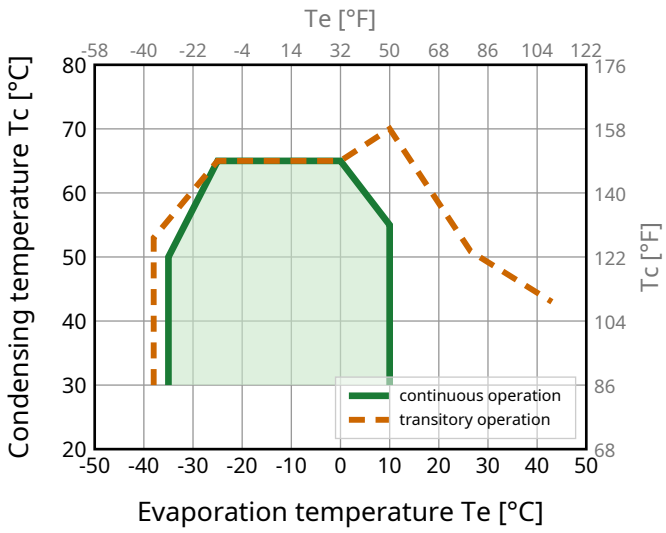
Electrical Accessories / Wiring Diagram

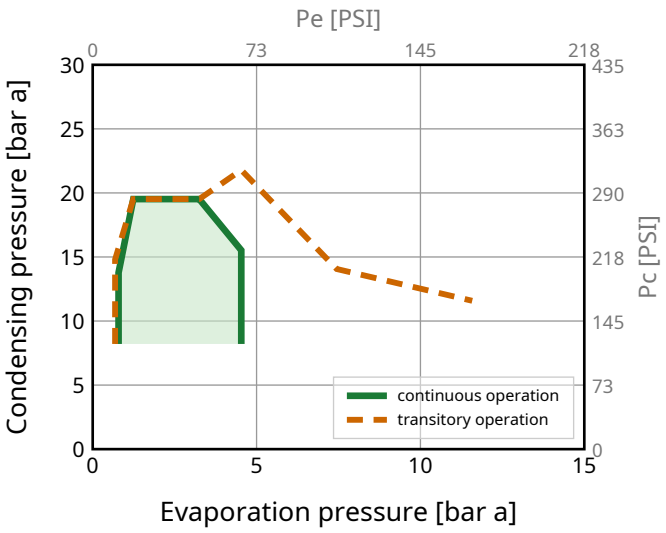


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model

NLE10MF.2 Configuration 5

Sales code:

105G6187

Standard Conditions

R513A, 220 V/50 Hz, eRSCR, fan 3m/s

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	**318**	1085	273	**1.56**	5.32	204	1.63	6.96	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**226**	771	194	**1.17**	4.01	192	1.61	6.26	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**169**	576	145	**1.16**	3.94	146	1.55	4.25	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**636**	2171	547	**2.02**	6.90	314	1.91	15.86	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**488**	1665	420	**1.67**	5.69	293	1.85	13.69	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**557**	1902	479	**2.06**	7.02	271	1.78	15.09	**EN12900 MBP**

Performance Tables

R513A, 220 V/50 Hz, eRSCR, fan 3m/s

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	**151**	517	130	**1.03**	3.51	147	1.56	3.73
-30	-22	**214**	728	184	**1.25**	4.28	170	1.58	5.27
-20	-4	**369**	1259	317	**1.69**	5.76	218	1.66	9.15
-10	14	**585**	1995	503	**2.16**	7.36	271	1.78	14.64
0	32	**884**	3017	760	**2.69**	9.17	329	1.96	22.40
10	50	**1290**	4401	1109	**3.28**	11.19	393	2.18	33.22

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

-35	-31	**106**	361	91	**0.82**	2.79	129	1.51	2.91
-30	-22	**162**	554	140	**1.01**	3.45	161	1.55	4.48
-20	-4	**300**	1022	258	**1.33**	4.54	225	1.68	8.33
-10	14	**488**	1665	420	**1.67**	5.69	293	1.85	13.69
0	32	**750**	2559	645	**2.06**	7.02	365	2.08	21.33
10	50	**1109**	3783	954	**2.50**	8.55	443	2.36	32.12

Model
NLE10MF.2 Configuration 6

Sales code:
105G6187

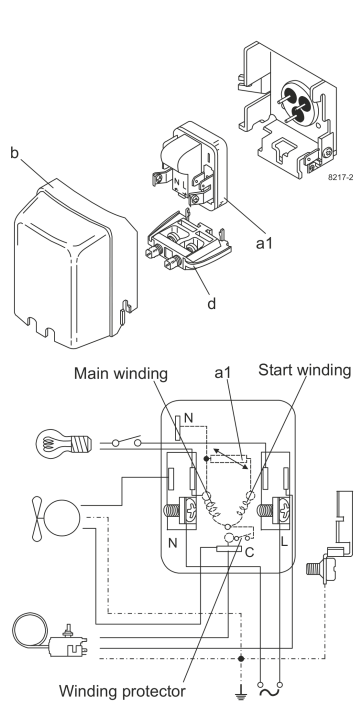
Configuration

Motor configuration	**eRSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.7 A**
RLA (rated load amps / 1s/ U(N))	**2.15 A**
Cut in current (U(N))	**15.9 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
fan 3m/s

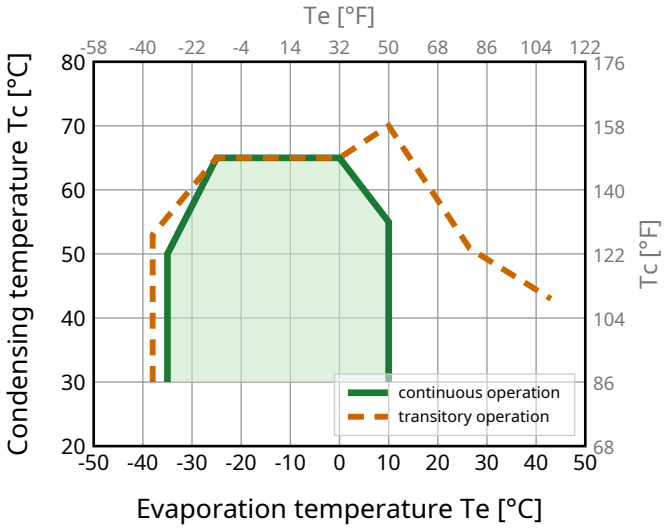
Electrical Accessories / Wiring Diagram

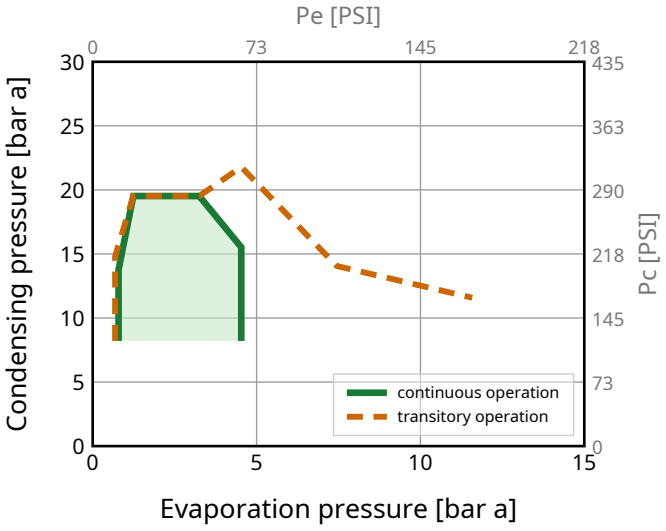


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model

NLE10MF.2 Configuration 6

Sales code:

105G6187

Standard Conditions

R513A, 220 V/50 Hz, eRSIR, fan 3m/s

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	**321**	1095	276	**1.48**	5.05	217	1.63	7.03	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**228**	779	196	**1.12**	3.81	205	1.60	6.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**170**	582	147	**1.09**	3.72	156	1.46	4.29	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**638**	2178	549	**1.92**	6.55	332	1.97	15.91	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**490**	1672	421	**1.58**	5.40	310	1.90	13.75	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**559**	1908	481	**1.95**	6.65	287	1.83	15.14	**EN12900 MBP**

Performance Tables

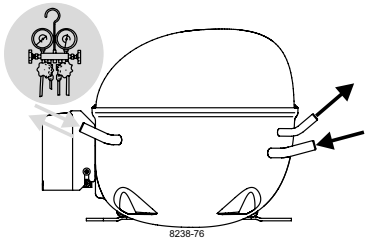
R513A, 220 V/50 Hz, eRSIR, fan 3m/s

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	**153**	522	132	**0.97**	3.32	158	1.46	3.77
-30	-22	**216**	736	185	**1.19**	4.06	181	1.53	5.32
-20	-4	**371**	1266	319	**1.60**	5.47	232	1.68	9.21
-10	14	**587**	2001	504	**2.05**	6.98	287	1.83	14.68
0	32	**886**	3022	762	**2.55**	8.70	347	2.01	22.43
10	50	**1292**	4407	1111	**3.11**	10.62	415	2.21	33.27

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

-35	-31	**107**	366	92	**0.77**	2.64	139	1.41	2.95
-30	-22	**164**	561	141	**0.96**	3.27	171	1.50	4.54
-20	-4	**302**	1030	260	**1.26**	4.32	239	1.70	8.39
-10	14	**490**	1672	421	**1.58**	5.40	310	1.90	13.75
0	32	**752**	2564	646	**1.95**	6.65	385	2.12	21.37
10	50	**1110**	3789	955	**2.38**	8.11	467	2.36	32.17



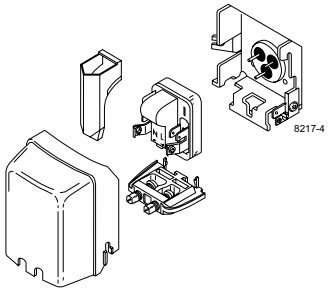
NL Compressors

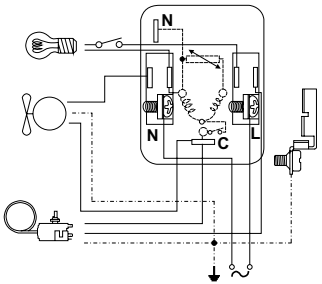
SECOP

Keep electrical equipment clear from oil, chemicals, and water

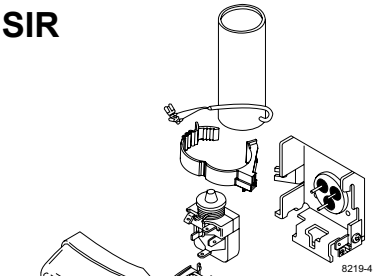
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

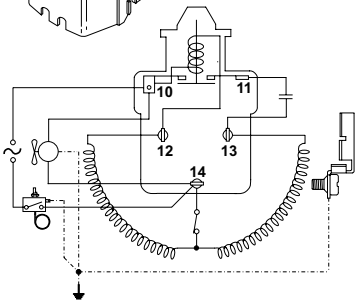
RSIR



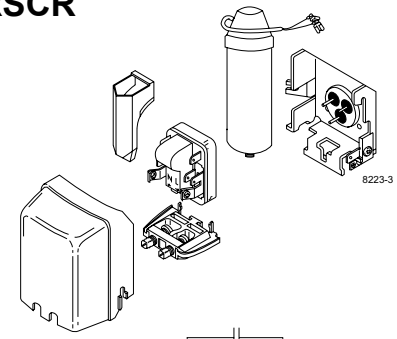


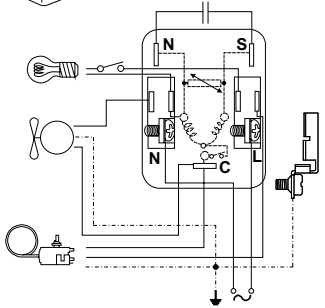
CSIR

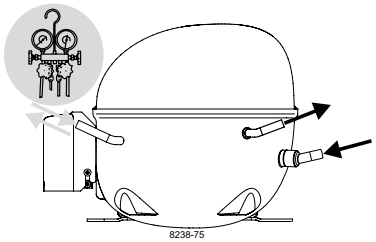




RSCR







NL Compressors

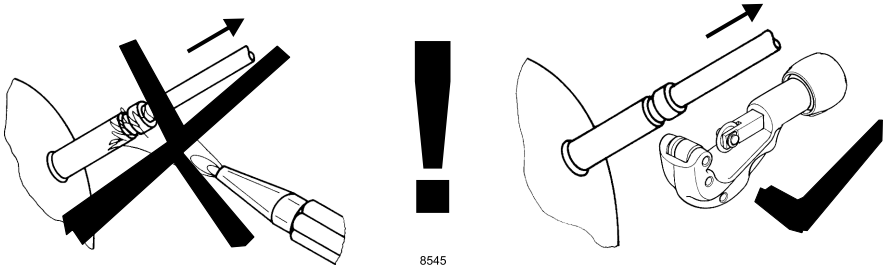
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

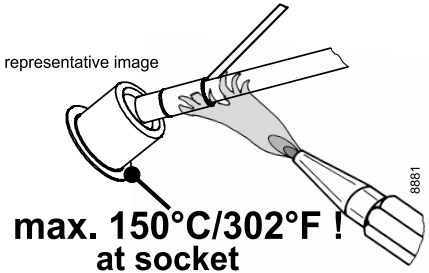
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**