Singolo
Imballi

Single Pack NLE10CN 115-127V 60Hz CSIR

Codice Imballo Singolo: **195B4546**

Posizione	Titolo	Codice	Quantità
1	Compressor NLE10CN	105H6194	1
2	Starting relay	117U7018	1
3	Starting capacitor (280µF 125V, 6.3mm)	117U5025	1
4	Cord relief	103N1010	1
5	Cover	103N2011	1
6	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 non si assume alcuna responsabilità per eventuali errori presenti in cataloghi, brochure e altro materiale stampato. Secop si riserva il diritto di modificare i propri prodotti senza preavviso. Ciò vale anche per i prodotti già ordinati, a condizione che tali modifiche possano essere apportate senza che siano necessarie modifiche successive alle specifiche già concordate. Tutti i marchi presenti in questo materiale sono di proprietà delle rispettive aziende. Secop e il logo Secop sono marchi di Secop GmbH. Tutti i diritti sono riservati.

Model
NLE10CN

Sales code:
105H6194

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.90 kg / 24.03lbs**
Displacement	**10.09 cm3 / 0.62cu.in**
Compressors on pallet	**80**

General – Configurations With NLE10CN

–	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSIR	RSIR	RSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1	1
Voltage range	103-127 V	103-127 V	103-127 V
Approvals	UL, CCC	UL, CCC	UL, CCC
Starting torque	HST	LST	LST
Refrigerant	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK
Long interval pull down	OK	OK	OK

Application Notes

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

Model
NLE10CN

Sales code:
105H6194

Compressor Design

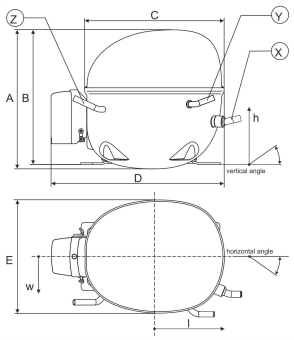
Oil type	**32 cSt POE RL32DR**	Winding resistance main	**1.56 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**4.4 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**120°C / 248°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

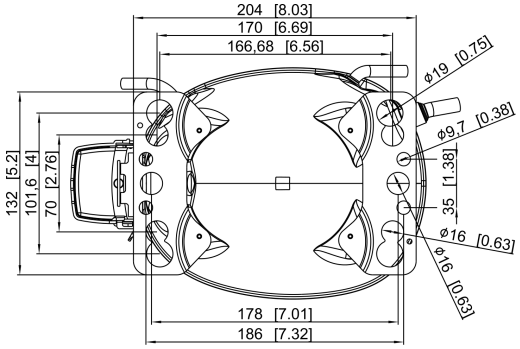
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



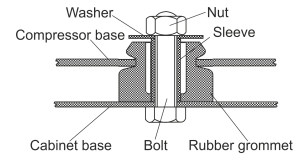
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-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

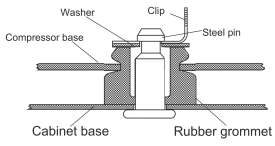


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	–
Bolt joint | ø1/4" | ø19mm	118-1949	–
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Model
NLE10CN Configuration 1

Sales code:
105H6194

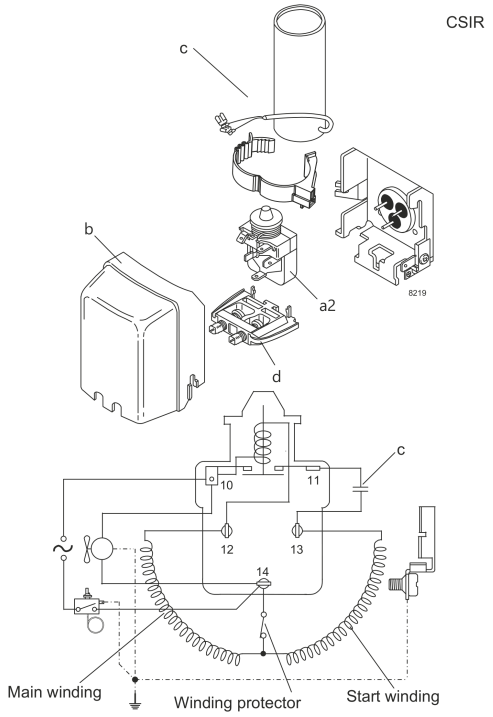
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**280 µF**
LRA (locked rotor amps / 4s/ U(N))	**34.53 A**
RLA (rated load amps / 1s/ U(N))	**5.6 A**
Cut in current (U(N))	**34.53 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

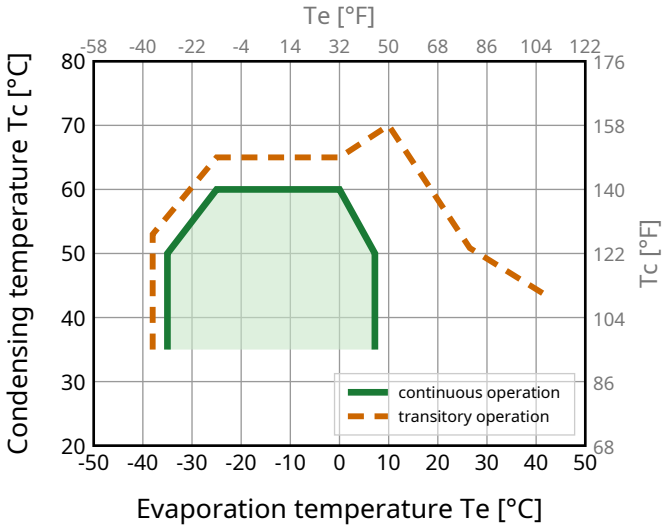
Electrical Accessories / Wiring Diagram

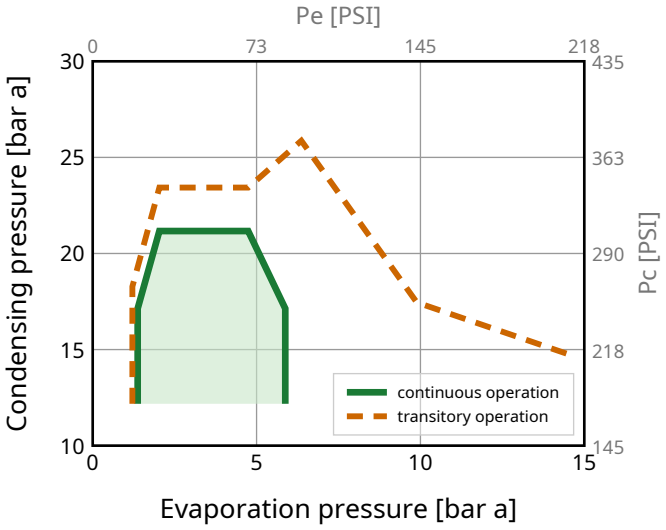


View full size

Components
a2 current relay 117U7018
c start capacitor (280µF) 117U5025
b plastic cover 103N2011
d cord relief 103N1010

Operation Pressure Range





Model

NLE10CN Configuration 1

Sales code:

105H6194

Standard Conditions

R290, 115 V/60 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	**610**	2082	525	**1.53**	5.22	399	5.18	6.20	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**456**	1557	393	**1.17**	4.00	390	5.13	5.72	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**362**	1234	311	**1.26**	4.31	286	4.53	4.15	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1069**	3648	919	**2.05**	6.99	522	5.95	12.24	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**854**	2914	735	**1.70**	5.80	503	5.84	10.86	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**935**	3192	804	**2.04**	6.96	459	5.48	11.51	**EN12900 MBP**

Performance Tables

R290, 115 V/60 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	**339**	1157	292	**1.18**	4.01	288	4.51	3.82
-30	-22	**429**	1462	369	**1.31**	4.49	326	4.74	4.84
-20	-4	**662**	2259	569	**1.68**	5.74	394	5.12	7.53
-10	14	**972**	3318	836	**2.12**	7.23	459	5.48	11.17
0	32	**1364**	4656	1173	**2.58**	8.81	529	5.87	15.87
7.2	45	**1700**	5800	1462	**2.90**	9.89	586	6.20	20.00

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

-35	-31	**282**	961	242	**0.93**	3.16	304	4.62	3.51
-30	-22	**360**	1230	310	**1.03**	3.52	349	4.88	4.50
-20	-4	**570**	1946	490	**1.33**	4.54	428	5.37	7.18
-10	14	**854**	2914	735	**1.70**	5.80	503	5.84	10.86
0	32	**1216**	4151	1046	**2.10**	7.16	580	6.36	15.69
7.2	45	**1529**	5216	1315	**2.39**	8.14	640	6.80	19.97

Model
NLE10CN Configuration 2

Sales code:
105H6194

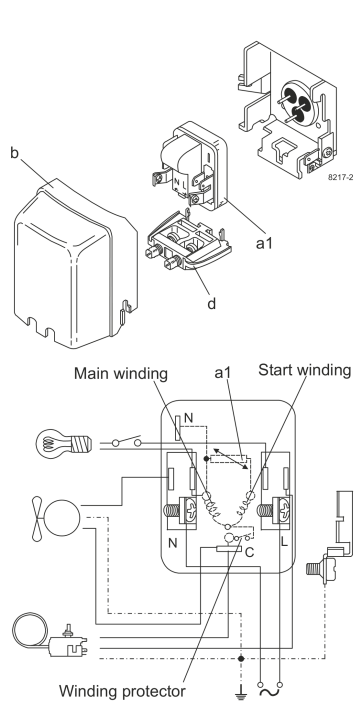
Configuration

Motor configuration	**RSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**103-127 V**
Starting torque	**LST**
Approvals	**UL, CCC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**34.53 A**
RLA (rated load amps / 1s/ U(N))	**5.6 A**
Cut in current (U(N))	**34.53 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

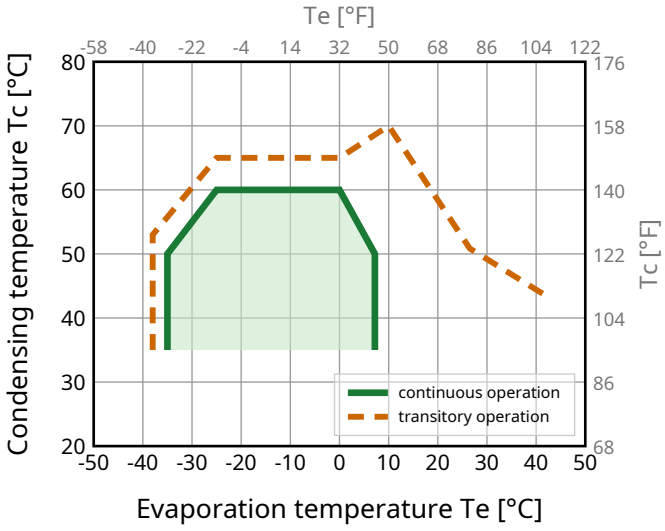
Electrical Accessories / Wiring Diagram

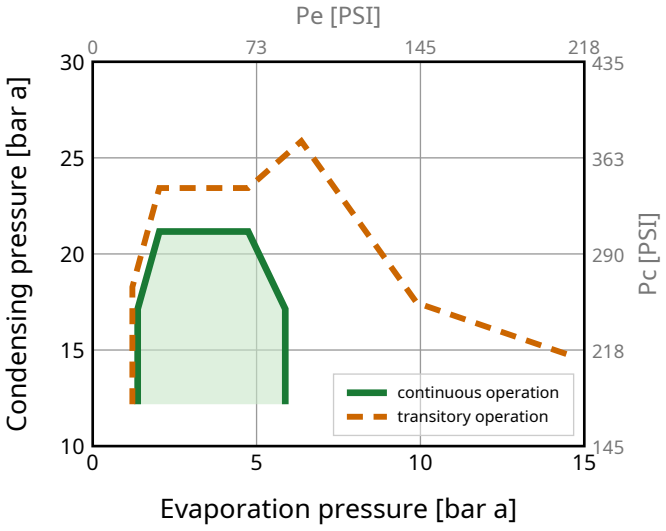


Components
a1 e-PTC starter (115V, 5Ohm, 6.3mm, 4.8-cap) 103N0057
b plastic cover 103N2011
d cord relief 103N1010

Alternative components
a1 e-PTC starter 103N0058

Operation Pressure Range





Model

NLE10CN Configuration 2

Sales code:

105H6194

Standard Conditions

R290, 115 V/60 Hz, RSIR, 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	**610**	2082	525	**1.53**	5.22	399	5.18	6.20	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**456**	1557	393	**1.17**	4.00	390	5.13	5.72	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**362**	1234	311	**1.26**	4.31	286	4.53	4.15	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1069**	3648	919	**2.05**	6.99	522	5.95	12.24	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**854**	2914	735	**1.70**	5.80	503	5.84	10.86	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**935**	3192	804	**2.04**	6.96	459	5.48	11.51	**EN12900 MBP**

Performance Tables

R290, 115 V/60 Hz, RSIR, 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	**339**	1157	292	**1.18**	4.01	288	4.51	3.82
-30	-22	**429**	1462	369	**1.31**	4.49	326	4.74	4.84
-20	-4	**662**	2259	569	**1.68**	5.74	394	5.12	7.53
-10	14	**972**	3318	836	**2.12**	7.23	459	5.48	11.17
0	32	**1364**	4656	1173	**2.58**	8.81	529	5.87	15.87
7.2	45	**1700**	5800	1462	**2.90**	9.89	586	6.20	20.00

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

-35	-31	**282**	961	242	**0.93**	3.16	304	4.62	3.51
-30	-22	**360**	1230	310	**1.03**	3.52	349	4.88	4.50
-20	-4	**570**	1946	490	**1.33**	4.54	428	5.37	7.18
-10	14	**854**	2914	735	**1.70**	5.80	503	5.84	10.86
0	32	**1216**	4151	1046	**2.10**	7.16	580	6.36	15.69
7.2	45	**1529**	5216	1315	**2.39**	8.14	640	6.80	19.97

Model
NLE10CN Configuration 3

Sales code:
105H6194

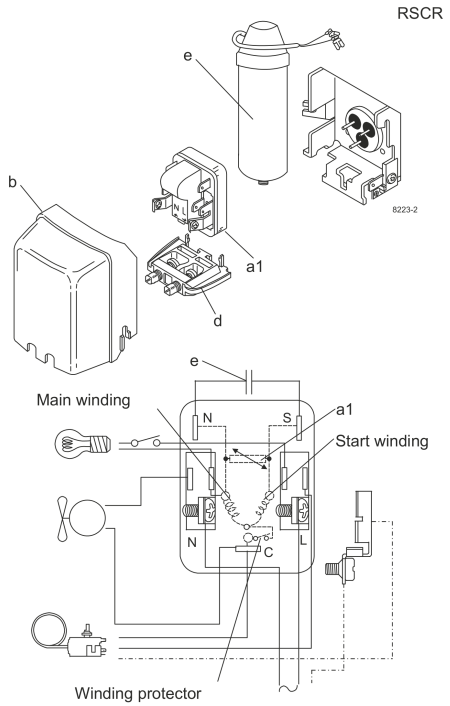
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**103-127 V**
Starting torque	**LST**
Approvals	**UL, CCC**
Starting device type	**PTC**
Run capacitor	**15 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**34.53 A**
RLA (rated load amps / 1s/ U(N))	**5.6 A**
Cut in current (U(N))	**34.53 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

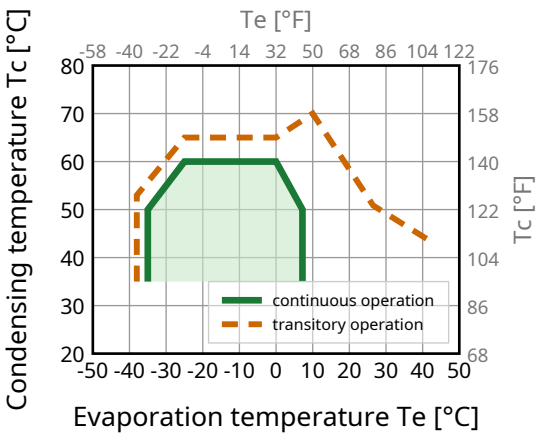
Electrical Accessories / Wiring Diagram

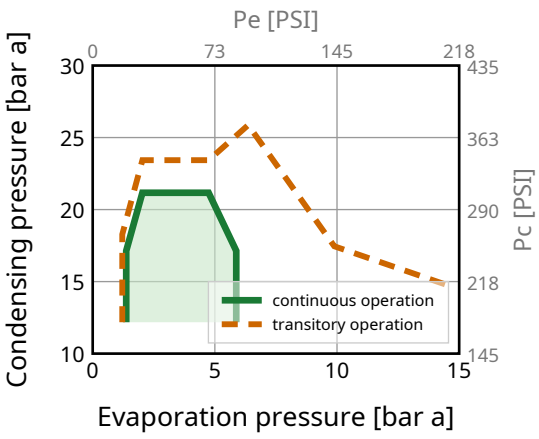


Components
a1 e-PTC starter 103N0058
e run capacitor (15µF, 6.3mm) 117-7118
b plastic cover 103N2011
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
a1 e-PTC starter (115V, 5Ohm, 6.3mm, 4.8-cap) 103N0057
e run capacitor (15µF, 4.8mm) 117-7120
b plastic cover 103N2011
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Operation Pressure Range





Model

NLE10CN Configuration 3

Sales code:

105H6194

Standard Conditions

R290, 115 V/60 Hz, RSCR, 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	**620**	2116	533	**1.68**	5.74	368	4.78	6.30	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**464**	1582	399	**1.29**	4.40	360	4.74	5.81	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**368**	1254	316	**1.39**	4.75	264	4.18	4.22	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**1086**	3707	934	**2.25**	7.69	482	5.49	12.44	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**868**	2962	746	**1.87**	6.38	464	5.39	11.04	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**951**	3244	818	**2.24**	7.66	424	5.06	11.70	**EN12900 MBP**

Performance Tables

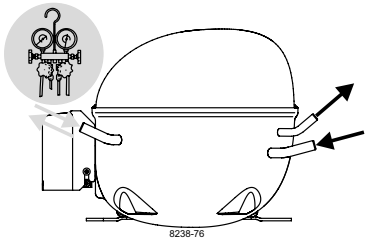
R290, 115 V/60 Hz, RSCR, fan 3m/s

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	**345**	1176	297	**1.29**	4.42	266	4.17	3.88
-30	-22	**436**	1486	375	**1.45**	4.94	301	4.38	4.92
-20	-4	**673**	2296	579	**1.85**	6.31	364	4.73	7.66
-10	14	**988**	3372	850	**2.33**	7.96	424	5.06	11.35
0	32	**1387**	4731	1193	**2.84**	9.69	488	5.42	16.12
7.2	45	**1728**	5895	1486	**3.19**	10.89	541	5.72	20.32

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

-35	-31	**286**	977	246	**1.02**	3.47	281	4.27	3.56
-30	-22	**366**	1249	315	**1.14**	3.88	322	4.51	4.58
-20	-4	**580**	1978	498	**1.47**	5.00	396	4.96	7.29
-10	14	**868**	2962	746	**1.87**	6.38	464	5.39	11.04
0	32	**1236**	4218	1063	**2.31**	7.88	535	5.87	15.94
7.2	45	**1554**	5301	1336	**2.63**	8.96	591	6.28	20.30



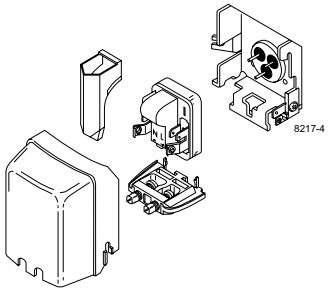
NL Compressors

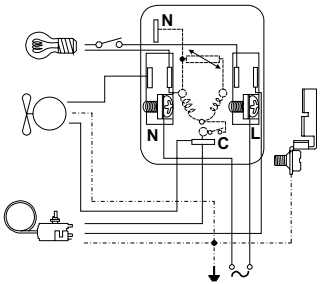
SECOP

Keep electrical equipment clear from oil, chemicals, and water

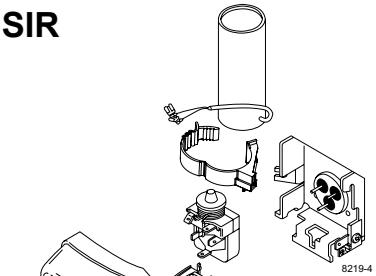
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

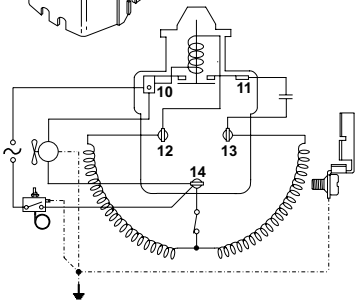
RSIR



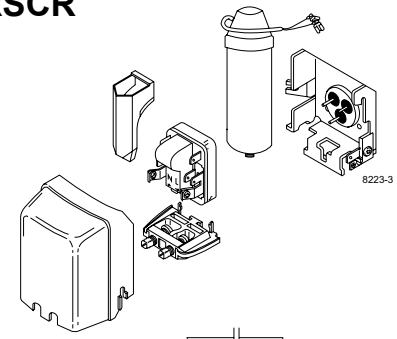


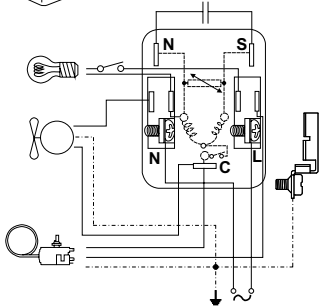
CSIR

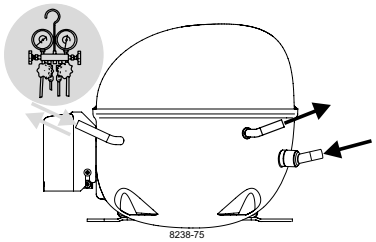




RSCR







NL Compressors

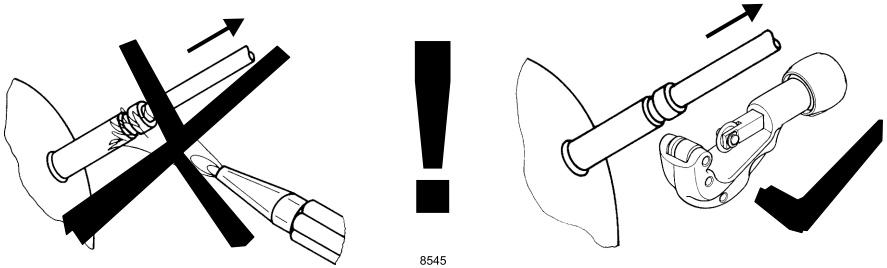
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

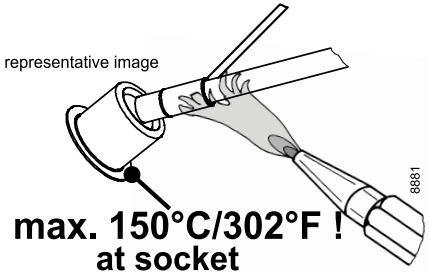
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**