Single
Packs

Single Pack NL8.4CNX.2 115V 60Hz CSIR

Single pack code number: **195B4522**

Position	Title	Code	Amount
1	Compressor NL8.4CNX.2	105H6090	1
2	Starting relay	117U7013	1
3	Starting capacitor (125µF 125V, 6.3mm)	117U5035	1
4	Cord relief	103N1010	1
5	Cover	103N2011	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NL8.4CNX.2

Sales code:
105H6090

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**10.50 kg / 23.15lbs**
Displacement	**8.35 cm3 / 0.51cu.in**
Compressors on pallet	**80**

General – Configurations With NL8.4CNX.2

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	CCC, UL
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Long interval pull down	OK

Application Notes

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

Model
NL8.4CNX.2

Sales code:
105H6090

Compressor Design

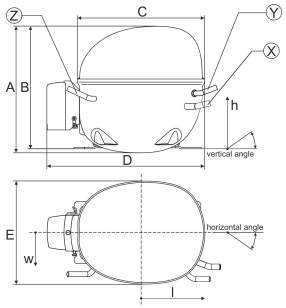
Oil type	**POE**	Winding resistance main	**1.3 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**7 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

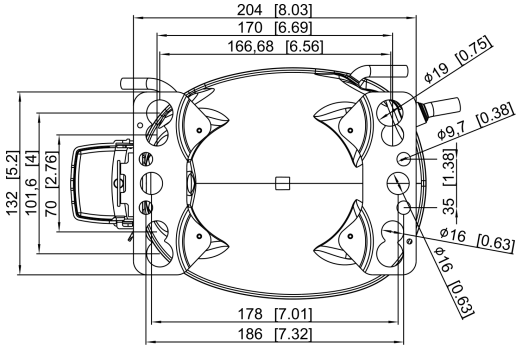
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



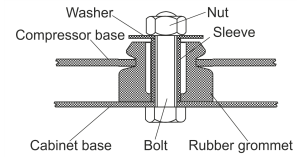
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-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

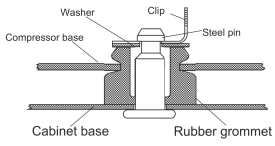


Dimensions in mm [in]

Bolt joint



Snap-on



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

Model

NL8.4CNX.2 Configuration 1

Sales code:

105H6090

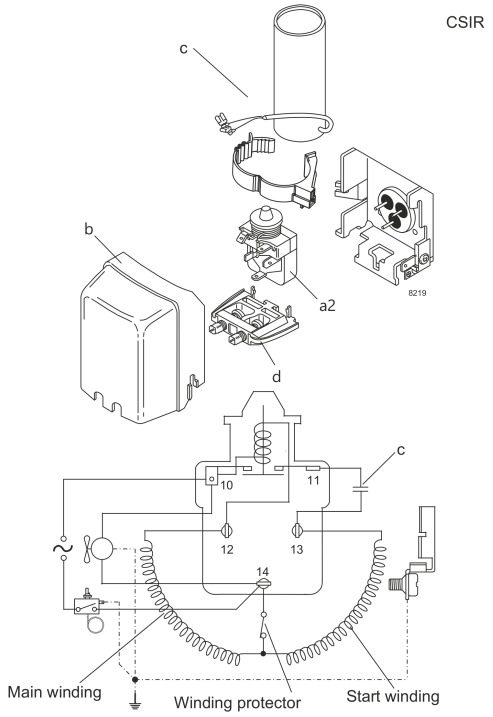
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**95-135 V**
Starting torque	**HST**
Approvals	**CCC, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**26.4 A**
RLA (rated load amps / 1s/ U(N))	**5.3 A**
Cut in current (U(N))	**26.4 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



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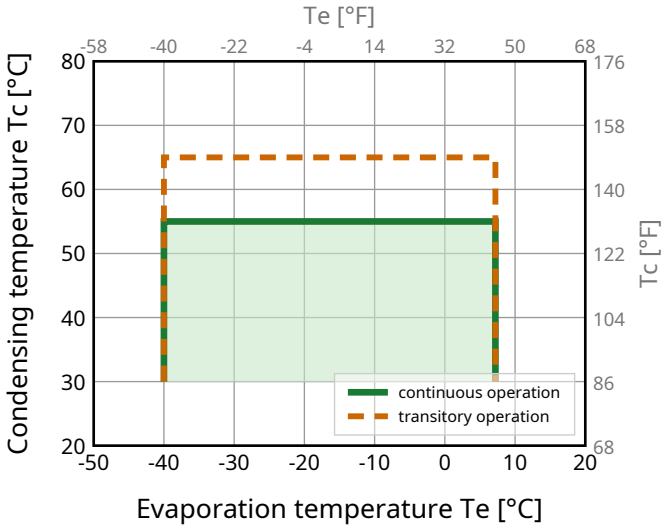
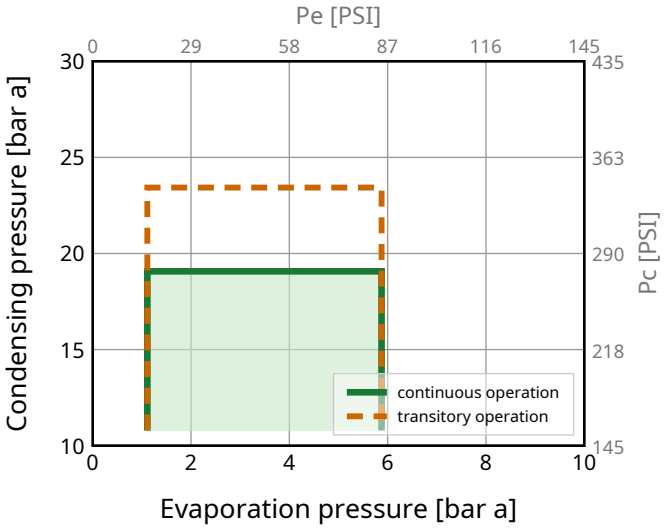
Components
a2 relay 117U7013
c start capacitor (125µF, 6,3mm) 117U5035
b plastic cover 103N2011
d cord relief 103N1010

Operation Pressure Range





Model

NL8.4CNX.2 Configuration 1

Sales code:

105H6090

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	**488**	1665	420	**1.47**	5.03	331	4.06	4.96	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**363**	1240	313	**1.14**	3.88	319	3.98	4.55	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**274**	935	236	**1.12**	3.82	245	3.52	3.15	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**400**	1365	344	**1.24**	4.22	324	4.01	5.56	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**534**	1822	459	**1.72**	5.87	310	3.92	5.42	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**263**	897	226	**1.06**	3.62	248	3.54	2.96	**opt LBP**

Performance Tables

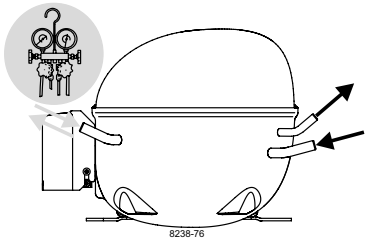
R290, 115 V/60 Hz, CSIR, fan 3m/s

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]
-40	-40	**195**	666	168	**0.89**	3.03	220	3.40	2.19
-30	-22	**341**	1164	293	**1.23**	4.20	277	3.71	3.85
-20	-4	**540**	1841	464	**1.59**	5.44	338	4.11	6.14
-10	14	**809**	2760	696	**2.03**	6.91	399	4.55	9.29
0	32	**1167**	3983	1004	**2.57**	8.77	454	4.98	13.57
7.2	45	**1491**	5088	1282	**3.06**	10.44	487	5.26	17.54

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

-40	-40	**155**	529	133	**0.72**	2.44	217	3.38	1.93
-30	-22	**284**	969	244	**1.00**	3.42	283	3.75	3.55
-20	-4	**456**	1556	392	**1.28**	4.36	357	4.24	5.74
-10	14	**690**	2355	594	**1.60**	5.46	432	4.80	8.78
0	32	**1005**	3429	864	**2.00**	6.81	504	5.38	12.96
7.2	45	**1292**	4407	1111	**2.35**	8.01	550	5.78	16.87



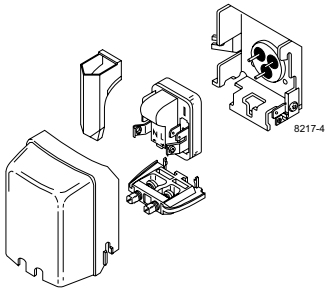
NL Compressors

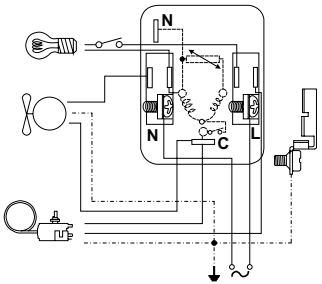
SECOP

Keep electrical equipment clear from oil, chemicals, and water

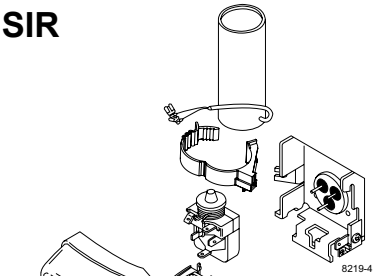
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

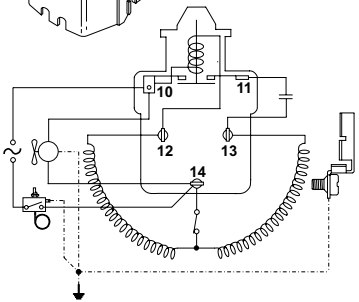
RSIR



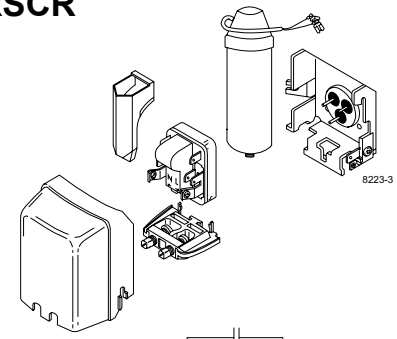


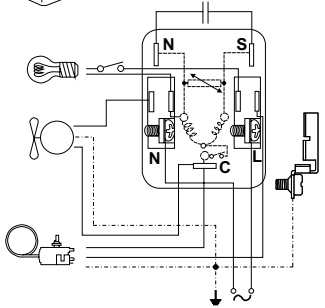
CSIR

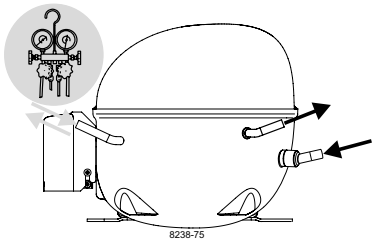




RSCR







NL Compressors

SECOP

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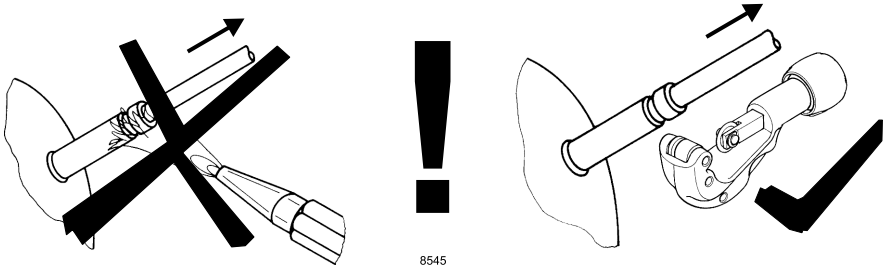
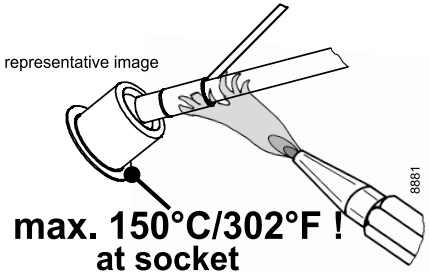
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**