Single
Packs

SECOP

Single Pack NLE11MNDX 220-240V 50Hz CSCR

Single pack code number: **195B4834**

Position	Title	Code	Amount
1	Compressor NLE11MNDX	105H7103	1
2	Start equipment NLE	117U8201	1
3	Starting capacitor (80µF 260V)	117U5353	1
4	Run Capacitor (10µF 450V, 6.3mm)	117-7166	1
5	Run capacitor bracket	117-0314	1
6	Cover NLE	117U1038	1
7	Cord relief	103N1007	1
8	Screw for bracket M4x8mm	117-0301	1
9	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NLE11MNDX

Sales code:
105H7103

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**11.80 kg / 26.01lbs**
Displacement	**11.15 cm3 / 0.68cu.in**
Compressors on pallet	**80**

General – Configurations With NLE11MNDX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

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

Model
NLE11MNDX

Sales code:
105H7103

Compressor Design

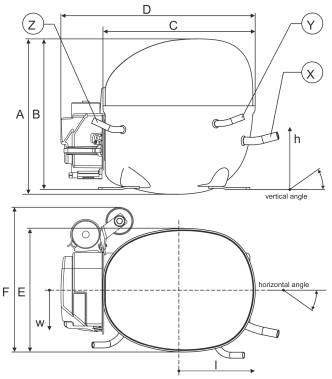
Oil type	**POE**	Winding resistance main	**7.5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.9 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

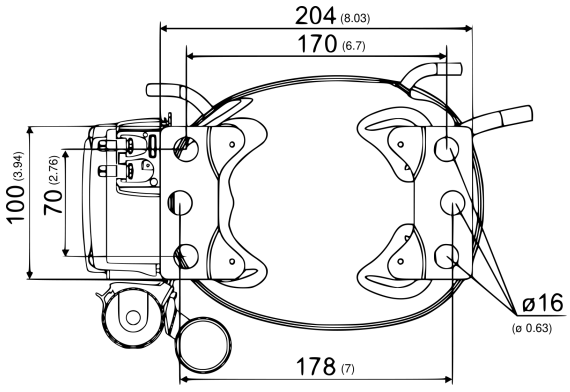
A Height	**209mm / 8.23in**
B Height	**203mm / 7.99in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**262mm / 10.31in**
E Width	**166mm / 6.54in**

Find 3D Model here



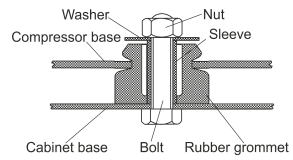
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	11°	0°	0°
Vertical angle ±2°	15°	21°	25°
Position l/h/w [mm]	140/72/59 / 5.51/2.83/2.32in	94/98.1/87 / 3.70/3.86/3.43in	-109/93/74 / -4.29/3.66/2.91in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

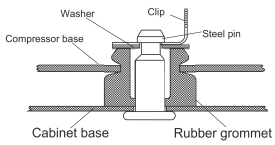


Dimensions in mm [in]

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
NLE11MNDX Configuration 1

Sales code:
105H7103

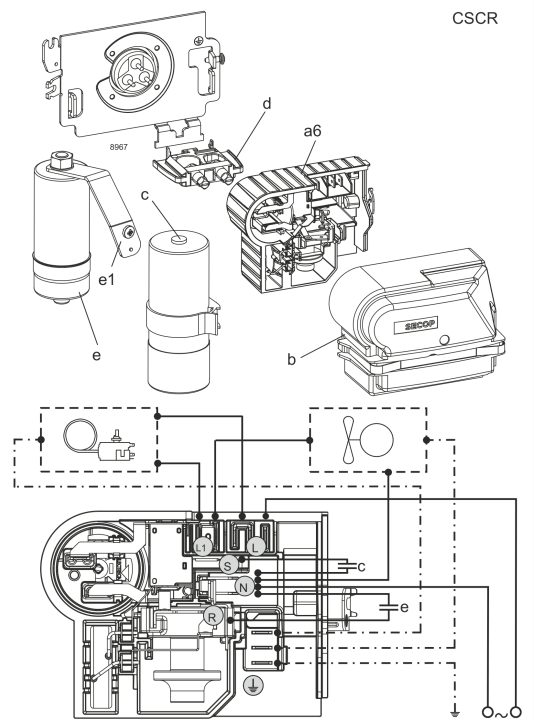
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**16.7 A**
RLA (rated load amps / 1s/ U(N))	**2.2 A**
Cut in current (U(N))	**16.7 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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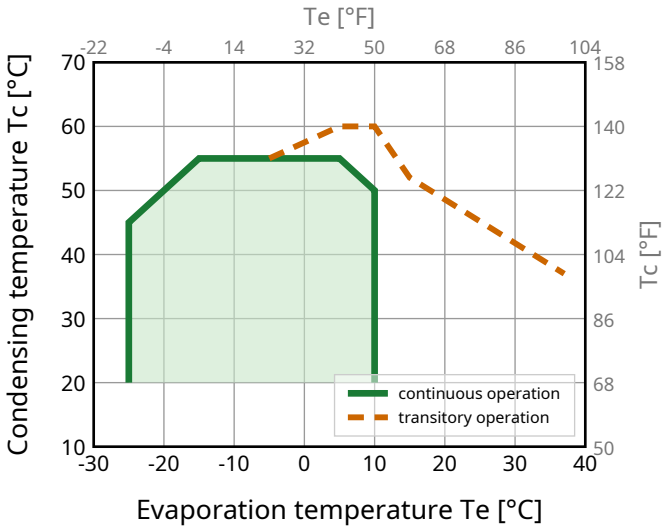
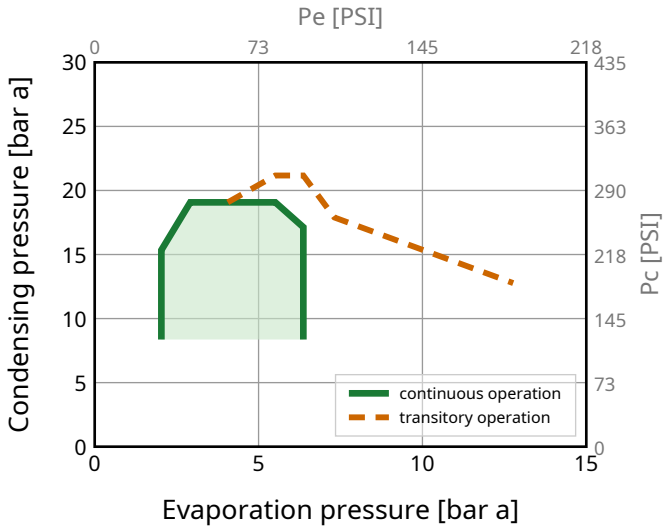
Components
a6 NL starter kit 117U8201
c start capacitor (80µF) 117U5353
e run cap (10µF, 6.3mm,c.length 280mm) 117-7166
b cover terminal board + clamp 117U1038
e1 retaining clamp 117-0314
screw M4x8mm 117-0301
d cord relief 103N1007

Operation Pressure Range





Model

NLE11MNDX Configuration 1

Sales code:

105H7103

Standard Conditions

R290, 220 V/50 Hz, CSCR, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**999**	3409	859	**2.14**	7.30	467	2.22	11.44	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**800**	2728	688	**1.79**	6.10	447	2.13	10.17	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**875**	2986	753	**2.17**	7.40	404	1.93	10.77	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**932**	3179	801	**2.12**	7.24	439	2.09	12.11	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**910**	3105	783	**2.25**	7.69	404	1.93	10.45	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**499**	1703	429	**1.59**	5.41	314	1.57	5.66	**opt MBP 2**

Performance Tables

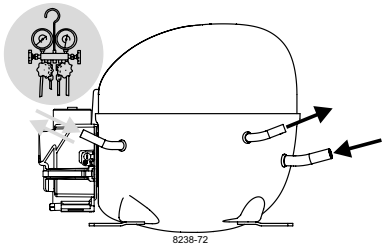
R290, 220 V/50 Hz, CSCR, fan 3m/s

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]
-25	-13	**499**	1703	429	**1.59**	5.41	314	1.57	5.66
-20	-4	**618**	2108	531	**1.78**	6.08	347	1.69	7.03
-15	5	**754**	2573	648	**2.00**	6.83	377	1.82	8.62
-10	14	**910**	3105	783	**2.25**	7.69	404	1.93	10.45
-5	23	**1088**	3711	935	**2.55**	8.70	426	2.04	12.56
0	32	**1290**	4400	1109	**2.90**	9.91	444	2.12	14.99
5	41	**1518**	5178	1305	**3.34**	11.39	455	2.17	17.79
10	50	**1774**	6054	1526	**3.87**	13.21	458	2.18	20.98

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

-25	-13	**432**	1473	371	**1.30**	4.42	333	1.65	5.41
-20	-4	**539**	1839	464	**1.45**	4.94	372	1.80	6.79
-15	5	**661**	2255	568	**1.61**	5.49	410	1.97	8.36
-10	14	**800**	2728	688	**1.79**	6.10	447	2.13	10.17
-5	23	**957**	3264	823	**1.99**	6.79	481	2.28	12.24
0	32	**1135**	3872	976	**2.22**	7.59	510	2.42	14.63
5	41	**1336**	4559	1149	**2.50**	8.53	535	2.53	17.38
10	50	**1563**	5333	1344	**2.83**	9.65	553	2.62	20.54



NLE Plus Compressors

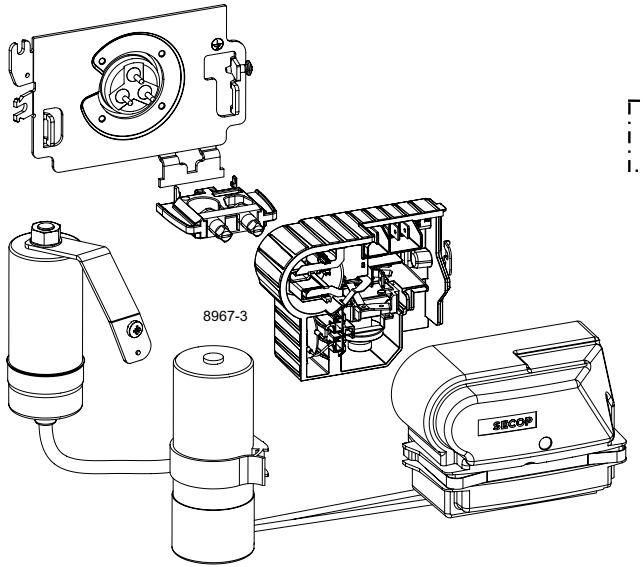
Optimized Electrical CSCR System

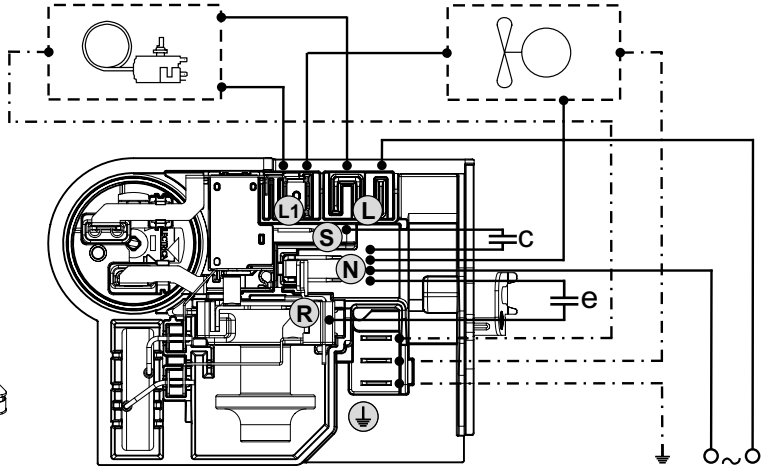
SECOP

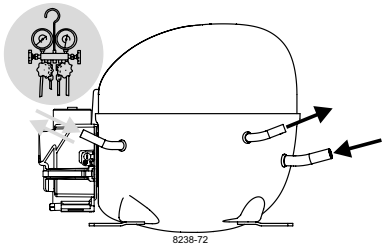
Keep electrical equipment clear from oil, chemicals, and water

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

CSCR







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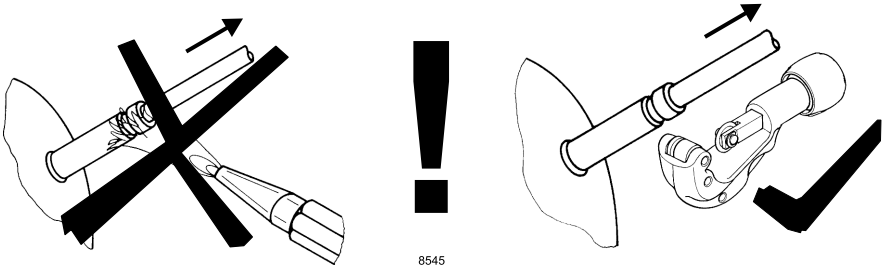
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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**