Single
Packs

Single Pack NLE13MNDX 220-240V 50Hz CSCR

Single pack code number: **195B4833**

Position	Title	Code	Amount
1	Compressor NLE13MNDX	105H7302	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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Technical Data Compressor

SECOP

Model

Designation	**NLE13MNDX**	**220-240V/50Hz 1~**	Sales code:	**105H7302**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	12,6cm³ / 0,77cu.in
Oil quantity	298cm³ / 10,1fl.oz	Compressors on pallet	
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	11,8kg / 26lbs		
Motor protection	external		
Winding resistance main	7,5Ω (at 25°C)		
Winding resistance aux	12,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		

General - Configurations with NLE13MNDX

	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE
Starting torque	HST
Note	- / -

Applications with NLE13MNDX

	Conf. 1
Refrigerant	R290
Application	MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with NLE13MNDX

	Conf. 1
Starting device type	relay
Run capacitor	10µF
Start capacitor	80µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	16,7A
RLA (rated load amps / 1s/ $U_{(N)}$)	2,2A
Cut in current ($U_{(N)}$)	16,7A

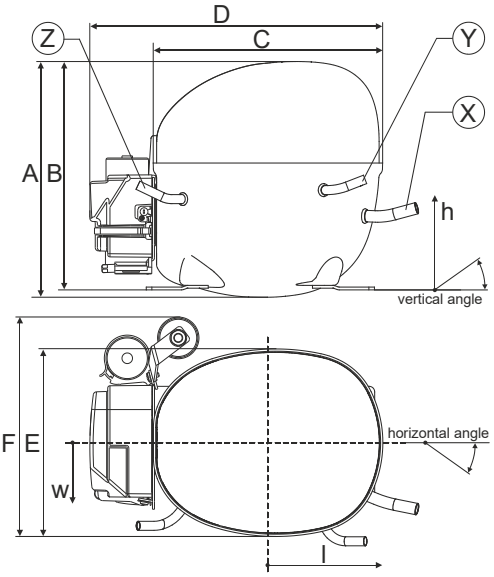
Model

Designation **NLE13MNDX** **220-240V/50Hz 1~** Sales code: **105H7302**

Compressor dimensions

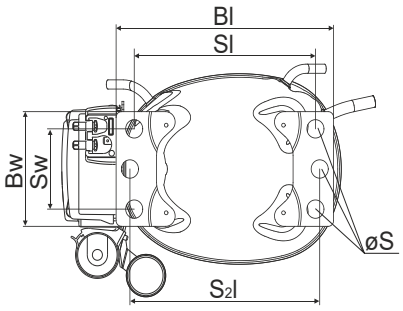
Housing

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



Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	11°	0°	0°
Vertical angle	±2°	15°	21°	25°
Position l/h/w	[mm]	140/72/59	94/98/87	-109/93/74
	[in]	5,5/2,8/2,3	3,7/3,9/3,4	-4,3/3,7/2,9
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

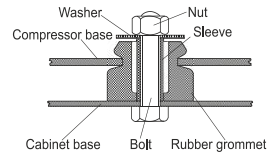
Compressor fixation



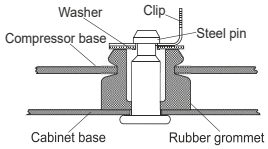
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	100	3.94

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	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

Application notes

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

Model

Designation					
	NLE13MNDX	**220-240V/50Hz**	**Conf. 1**	Sales code:	**105H7302**

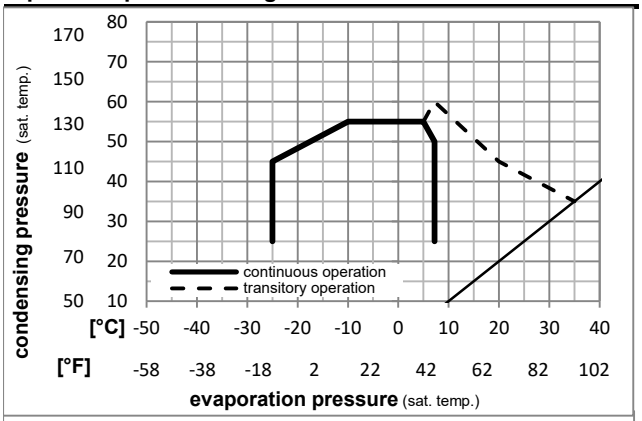
Configuration

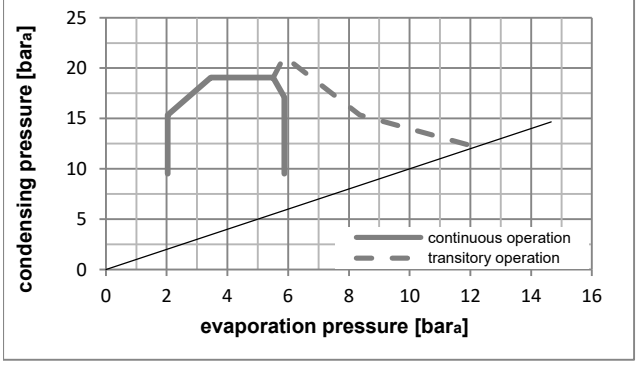
Motor configuration	CSCR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254V
Starting torque	HST
Approvals	VDE

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

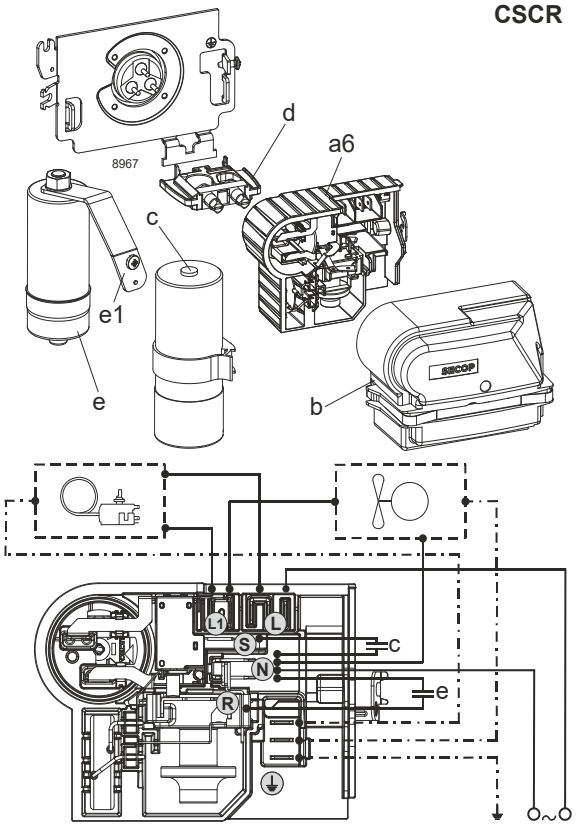
Operation pressure range





Electrical accessories / wiring diagram

CSCR



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

Model

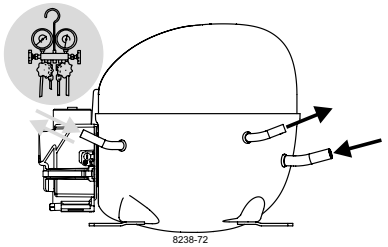
Designation **NLE13MNDX** **220-240V/50Hz** **Conf. 1** Sales code: **105H7302**

Optimization + standard conditions R290, 220V/50Hz, CSCR, fan 3m/s, VDE

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-7	54	35	46	1136,7	3882	978,2	2,09	7,14	1,80	544,0	2,55	12,97	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	906,1	3095	779,8	1,75	5,99	1,51	516,3	2,43	11,46	**cecomaf MBP**
[°F]	14	131	90	131										
[°C]	-10	45	20	45	1015,3	3468	873,8	2,19	7,49	1,89	463,2	2,19	12,47	**EN12900 MBP**
[°F]	14	113	68	113										
[°C]	-7	49	18	49	1072,0	3661	922,6	2,11	7,21	1,82	507,8	2,39	13,92	**ARI540 MBP**
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1057,0	3610	909,7	2,28	7,79	1,96	463,2	2,19	12,09	**opt**
[°F]	14	113	90	113										
[°C]	-25	45	32	45	569,7	1946	490,3	1,60	5,48	1,38	355,1	1,73	6,43	**opt**
[°F]	-13	113	90	113										

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

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	569,7	1946	490,3	1,60	5,48	1,38	355,1	1,73	6,43
cond. pressure	-20	-4	710,1	2425	611,2	1,82	6,20	1,56	391,0	1,88	8,04
pc= 45/113	-15	5	872,2	2979	750,6	2,04	6,96	1,75	427,7	2,03	9,92
return gas temp.	-10	14	1057,0	3610	909,7	2,28	7,79	1,96	463,2	2,19	12,09
RGT= 32/90	-5	23	1265,9	4323	1089,5	2,56	8,73	2,20	495,3	2,33	14,58
liquid temp	0	32	1500,1	5123	1291,0	2,87	9,81	2,47	522,0	2,45	17,40
Tliq= 45/113	7,2	45	1884,3	6435	1621,6	3,45	11,77	2,97	546,8	2,56	22,14
[°C / °F]	-25	-13	484,2	1654	416,7	1,30	4,44	1,12	372,2	1,80	6,03
cond. pressure	-20	-4	605,4	2067	521,0	1,44	4,93	1,24	419,0	2,00	7,57
pc= 55/131	-15	5	745,6	2546	641,7	1,59	5,44	1,37	467,7	2,21	9,37
return gas temp	-10	14	906,1	3095	779,8	1,75	5,99	1,51	516,3	2,43	11,46
RGT= 32/90	-5	23	1088,2	3716	936,5	1,93	6,60	1,66	562,8	2,63	13,86
liquid temp	0	32	1293,0	4416	1112,7	2,14	7,30	1,84	604,9	2,82	16,61
Tliq= 55/131	7,2	45	1630,3	5568	1403,1	2,49	8,51	2,15	653,9	3,05	21,24



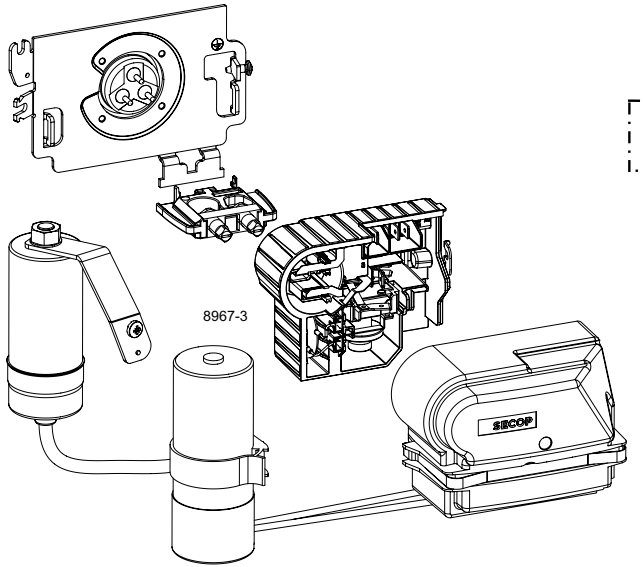
NLE Plus Compressors

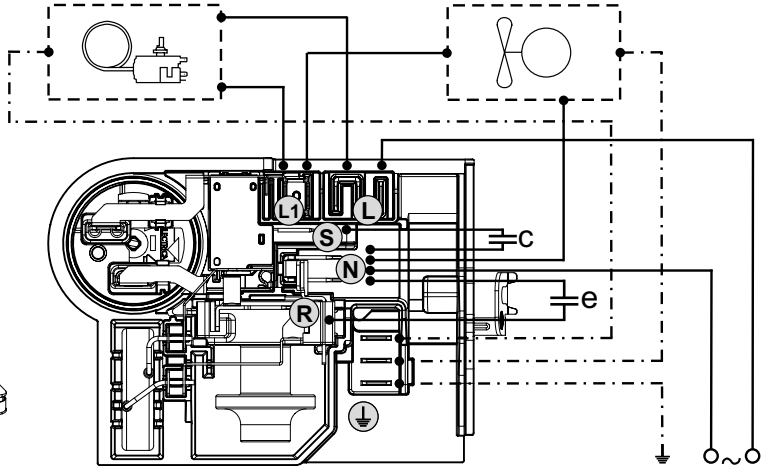
SECOP

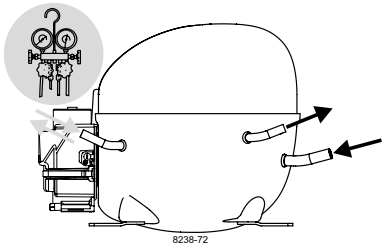
Keep electrical equipment clear from oil, chemicals, and water

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

CSCR







NLE Plus Compressors

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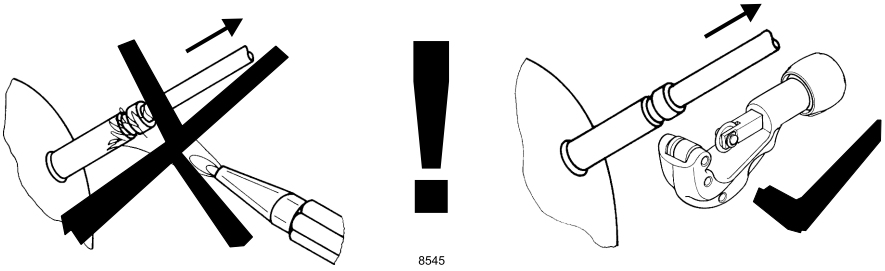
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**