

Model			
Designation	NLE10CN	220-240V/50Hz 1~	Sales code: 105H7175

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	10,09cm³ / 0,62cu.in
Oil quantity	268cm³ / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,9kg / 24lbs		
Motor protection	1# internal		
Winding resistance main	7,79Ω (at 25°C)		
Winding resistance aux	18,39Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	120°C / 248°F		



General - Configurations with NLE10CN

	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC, EAC
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE10CN

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

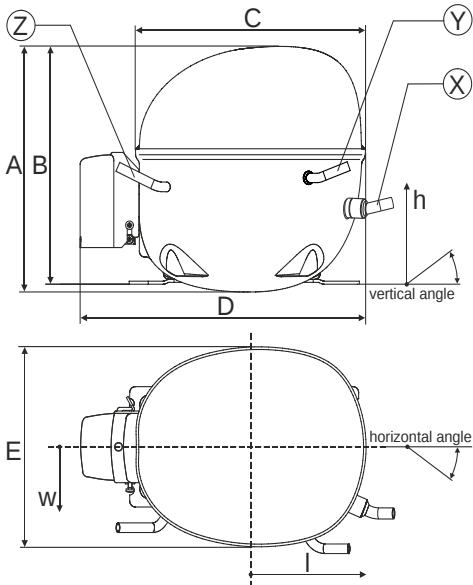
Electrical data - Configurations with NLE10CN

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	12,25A
RLA (rated load amps / 1s/ U(N))	2,58A
Cut in current (U(N))	12,25A

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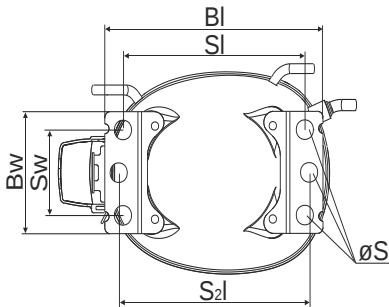
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in



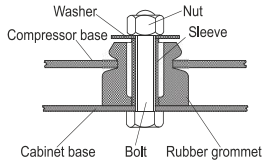
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	ø i 8,11-8,29	ø i 6,11-6,29	ø i 6,11-6,29
(i:inside, o:outside) [in]	ø i 0,32-0,33	ø i 0,24-0,25	ø i 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/69/57	94/102/81	-109/94/72
	[in] 5,2/2,7/2,2	[in] 3,7/4/3,2	[in] -4,3/3,7/2,8
Straight tube l. [mm]	12	12	12
	[in] 0,5	[in] 0,5	[in] 0,5

Compressor fixation

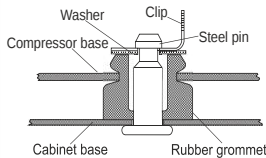


Baseplate	[mm]	[inch]
BI	204	8.03
BW	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
S2l	178	7
ØS	ø 16	ø 0.63

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

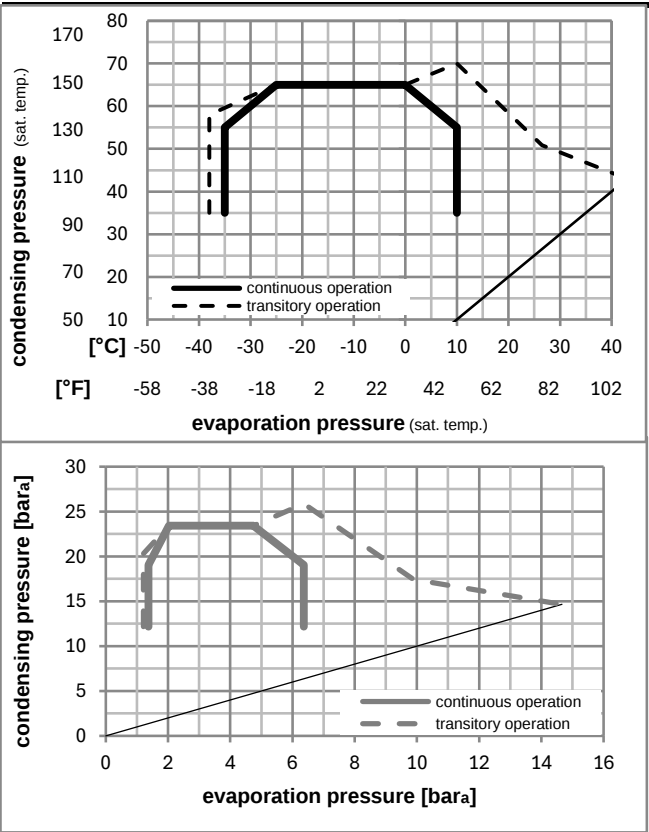
Model					
Designation	NLE10CN	220-240V/50Hz	Conf. 1	Sales code:	105H7175

Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	198-254V				
Starting torque	HST				
Approvals	VDE				
	CCC				
	EAC				

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



Components (incl. and pre. assembl.)		
a2	relay	117U7002
c	start capacitor (80µF)	117U5015
b	plastic cover	103N2010
d	cord relief	103N1010

Alternative comp.

b	plastic cover	103N2011
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Optimization + standard conditions			R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC		

Evaporating pressure (saturation temperature)															
Condensing pressure (saturation temperature)											Power consumption				
Return gas temp.											Current consumption				
Liquid temp.											Ref. mass flow				
Cooling capacity					COP			EER			P1	I	m		
pe	pc	RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	485,4	1658	417,7	1,47	5,00	1,26	331,3	2,15	4,92	ASHRAE LBP	
[°F]	-10	130	90	90											
[°C]	-25	55	32	55	362,5	1238	312,0	1,14	3,88	0,98	318,8	2,11	4,51	cecomaf LBP	
[°F]	-13	131	90	131											
[°C]	-35	40	20	40	285,5	975	245,7	1,23	4,21	1,06	231,7	1,87	3,26	EN12900 LBP	
[°F]	-31	104	68	104											
[°C]	-7	54	35	46	873,2	2982	751,5	1,89	6,44	1,62	462,7	2,62	9,96	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	-10	55	32	55	693,0	2367	596,4	1,58	5,39	1,36	439,1	2,53	8,77	cecomaf MBP	
[°F]	14	131	90	131											
[°C]	-10	45	20	45	781,1	2667	672,2	1,96	6,70	1,69	398,0	2,39	9,59	EN12900 MBP	
[°F]	14	113	68	113											

Performance tables						R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC					
	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]	-35	-31	274,0	936	235,8	1,16	3,96	1,00	236,0	1,89	3,07
cond. pressure	-25	-13	436,9	1492	376,0	1,45	4,94	1,25	301,9	2,06	4,93
pc= 45/113	-15	5	668,8	2284	575,6	1,82	6,21	1,57	367,6	2,28	7,61
return gas temp.	-10	14	813,1	2777	699,8	2,04	6,98	1,76	398,0	2,39	9,30
RGT= 32/90	0	32	1163,7	3974	1001,5	2,59	8,85	2,23	449,2	2,58	13,50
liquid temp	5	41	1371,8	4685	1180,6	2,93	10,01	2,52	468,2	2,65	16,05
Tliq= 45/113	10	50	1603,3	5475	1379,8	3,33	11,37	2,87	481,5	2,70	18,95
[°C / °F]	-35	-31	215,5	736	185,4	0,88	3,01	0,76	244,6	1,91	2,66
cond. pressure	-25	-13	362,5	1238	312,0	1,14	3,88	0,98	318,8	2,11	4,51
pc= 55/131	-15	5	566,9	1936	487,9	1,42	4,85	1,22	399,1	2,38	7,13
return gas temp	-10	14	693,0	2367	596,4	1,58	5,39	1,36	439,1	2,53	8,77
RGT= 32/90	0	32	998,3	3409	859,2	1,94	6,63	1,67	514,5	2,82	12,82
liquid temp	5	41	1179,4	4028	1015,0	2,15	7,35	1,85	547,9	2,96	15,29
Tliq= 55/131	10	50	1380,9	4716	1188,4	2,39	8,17	2,06	577,2	3,09	18,11