

Model
NLE12.6CNS

Sales code:
105H6392

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.70 kg / 25.79lbs
Displacement	12.55 cm³ / 0.77cu.in
Compressors on pallet	80



General – Configurations With NLE12.6CNS

	Conf. 1	Conf. 2
Motor configuration	CSIR	eRSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-135 V	103-135 V
Approvals	UL	UL
Starting torque	HST	LST
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Important: compressor is optimized for strong power supply and oversized heat exchangers.
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- Tailor made for supermarket applications.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

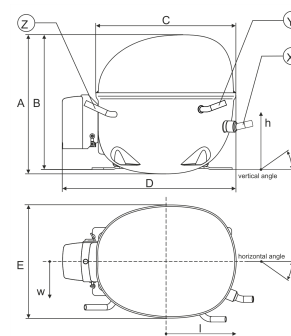
Oil type	POE	Winding resistance main	1 Ohm
Oil viscosity	32cSt	Winding resistance aux	3.3 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm3 / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

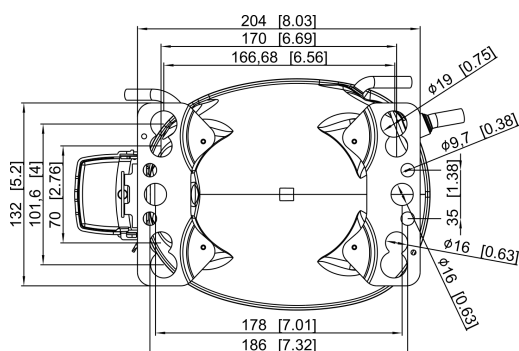
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



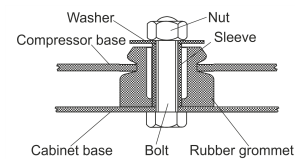
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

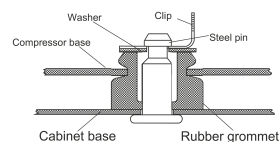


Dimensions in mm [in]

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

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	180 µF
LRA (locked rotor amps / 4s/ U(N))	31 A
RLA (rated load amps / 1s/ U(N))	6.4 A
Cut in current (U(N))	31 A

Ambient/ machine room temperatures minimum /maximum

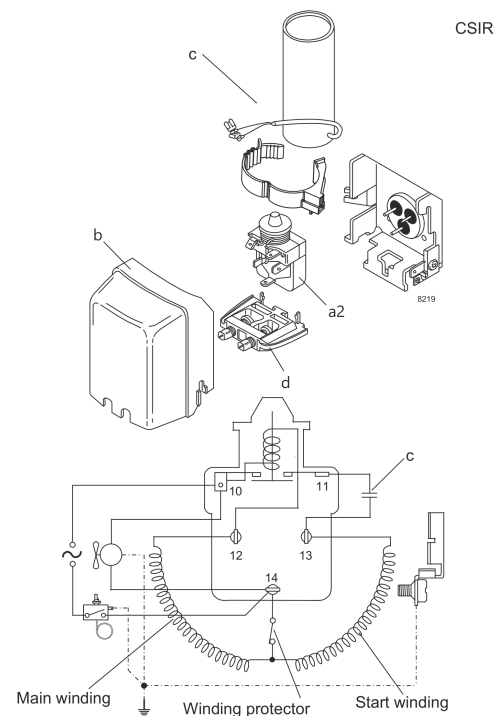
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

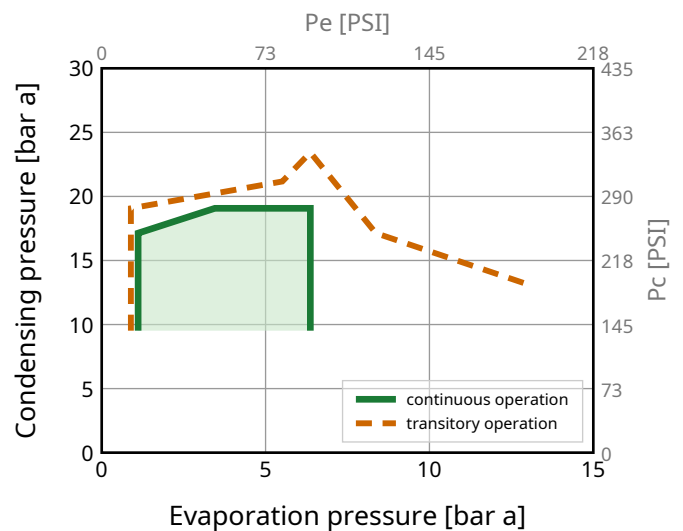
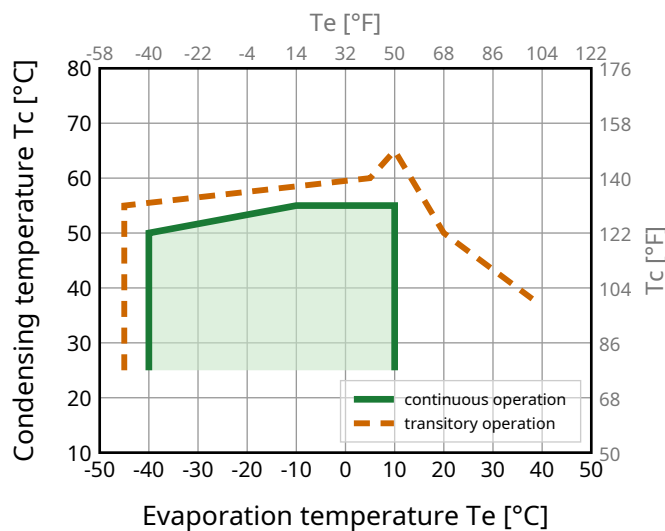
a2 current relay 117U7023

c start capacitor (180µF) 117U5039

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

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Configuration 1

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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	753	2568	647	1.61	5.49	468	5.35	7.64	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	556	1896	478	1.25	4.25	446	5.17	6.96	CECOMAF LBP
-35 -31	40 104	20 68	40 104	419	1429	360	1.32	4.51	317	4.10	4.80	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1340	4571	1152	1.98	6.76	676	7.08	15.34	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1071	3654	921	1.68	5.72	639	6.78	13.62	CECOMAF MBP
-10 14	45 113	20 68	45 113	1182	4034	1017	2.00	6.83	591	6.37	14.55	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	278	949	239	1.09	3.71	256	3.59	3.13
-30	-22	518	1768	446	1.38	4.72	375	4.58	5.86
-20	-4	831	2836	715	1.71	5.82	487	5.51	9.46
-10	14	1229	4193	1057	2.08	7.10	591	6.37	14.11
0	32	1724	5881	1482	2.52	8.62	683	7.14	20.04
10	50	2327	7938	2001	3.06	10.44	760	7.78	27.52

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

-40	-40	183	625	158	0.77	2.63	238	3.44	2.28
-30	-22	418	1425	359	1.11	3.77	378	4.60	5.22
-20	-4	710	2421	610	1.39	4.73	512	5.72	8.93
-10	14	1071	3654	921	1.68	5.72	639	6.78	13.62
0	32	1514	5165	1302	2.00	6.83	756	7.75	19.52
10	50	2050	6995	1763	2.38	8.13	860	8.61	26.94

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Configuration 2

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Configuration

Motor configuration	eRSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-135 V
Starting torque	LST
Approvals	UL
Starting device type	e-PTC
Run capacitor	23.5 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	31 A
RLA (rated load amps / 1s/ U(N))	6.4 A
Cut in current (U(N))	31 A

Ambient/ machine room temperatures minimum /maximum

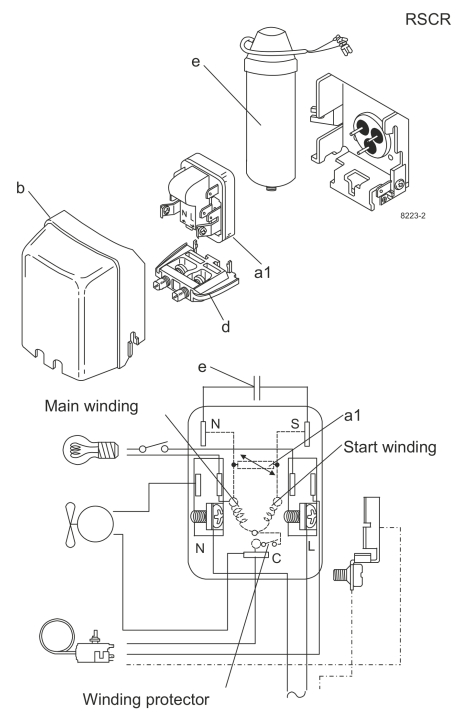
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter 103N0058

e run capacitor (23,5 μ F, 6.3mm) 117-7114

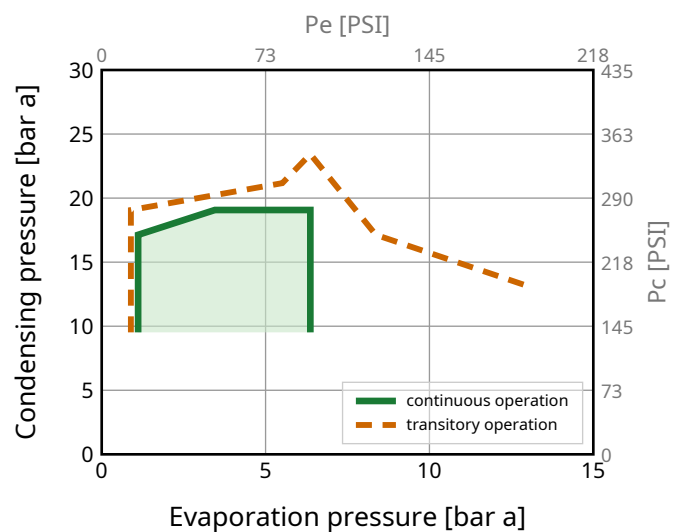
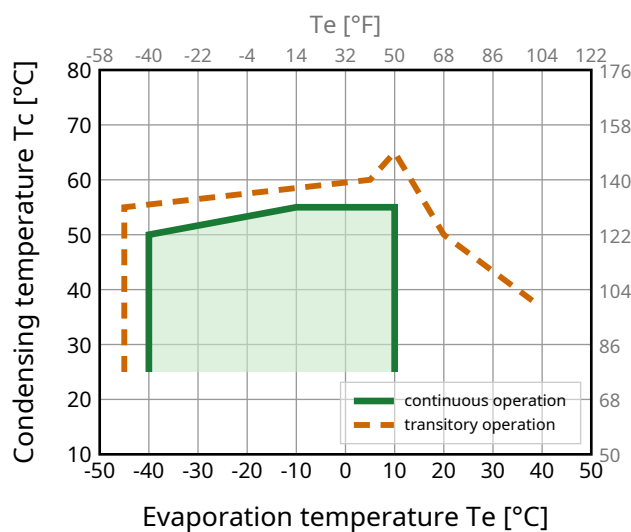
b plastic cover 103N2011

d cord relief 103N1010

bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Operation Pressure Range



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Configuration 2

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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	755	2575	649	1.71	5.83	441	3.97	7.67	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	557	1900	479	1.32	4.51	421	3.81	6.98	CECOMAF LBP
-35 -31	40 104	20 68	40 104	419	1430	361	1.38	4.72	303	3.11	4.81	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	1346	4594	1158	2.14	7.31	629	5.58	15.41	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1076	3670	925	1.80	6.16	596	5.30	13.68	CECOMAF MBP
-10 14	45 113	20 68	45 113	1187	4049	1020	2.15	7.33	553	4.96	14.60	EN12900 MBP

Performance Tables

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

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	278	949	239	1.13	3.87	246	2.64	3.13
-30	-22	519	1772	447	1.46	4.97	356	3.41	5.87
-20	-4	834	2845	717	1.81	6.19	459	4.19	9.48
-10	14	1234	4209	1061	2.23	7.62	553	4.96	14.17
0	32	1732	5910	1490	2.73	9.31	635	5.68	20.14
10	50	2342	7990	2014	3.33	11.34	704	6.31	27.70

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

-40	-40	183	626	158	0.80	2.74	228	2.38	2.28
-30	-22	418	1428	360	1.17	3.98	359	3.32	5.23
-20	-4	712	2428	612	1.48	5.04	482	4.31	8.96
-10	14	1076	3670	925	1.80	6.16	596	5.30	13.68
0	32	1523	5196	1310	2.18	7.42	700	6.25	19.64
10	50	2067	7052	1777	2.61	8.91	792	7.14	27.16