

Model
NLE12.6CNL

Sales code:
105H6376

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	300g / 10.58oz
Weight	11.80 kg / 26.01lbs
Displacement	12.55 cm3 / 0.77cu.in
Compressors on pallet	80



General – Configurations With NLE12.6CNL

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

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

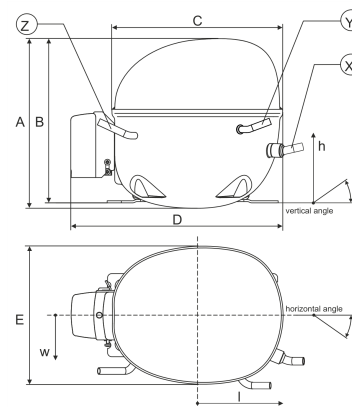
Oil type	POE	Motor protection	internal
Oil viscosity	32cSt	Max. winding temp.	125 °C
Oil quantity	298 / 10.08fl.oz	Max. discharge temp.	130°C / 266°F
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz		

Compressor Dimensions

Housing

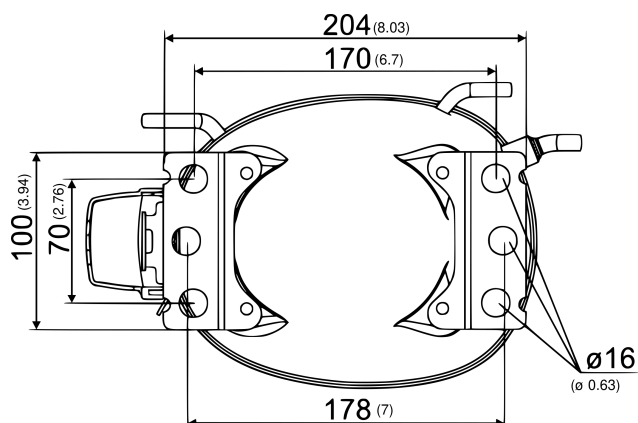
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

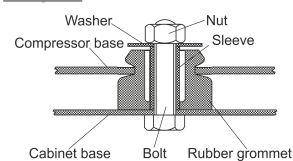


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

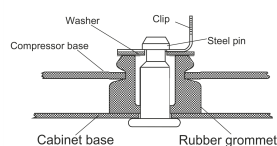
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	15.3 A
RLA (rated load amps / 1s/ U(N))	2.7 A
Cut in current (U(N))	19.2 A

Ambient/ machine room temperatures minimum /maximum

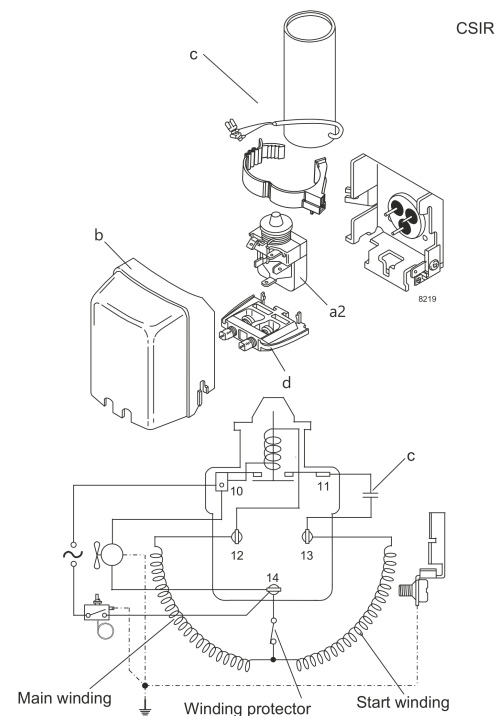
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

a2 relay 117U7053

c start capacitor (80µF) 117U5079

b plastic cover 103N2011

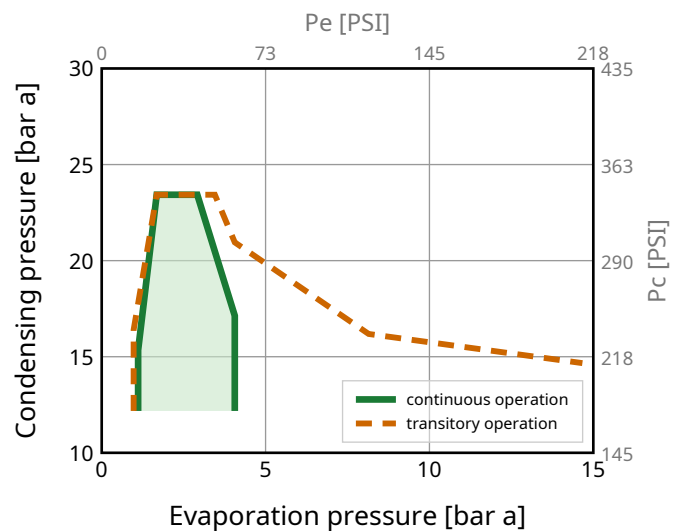
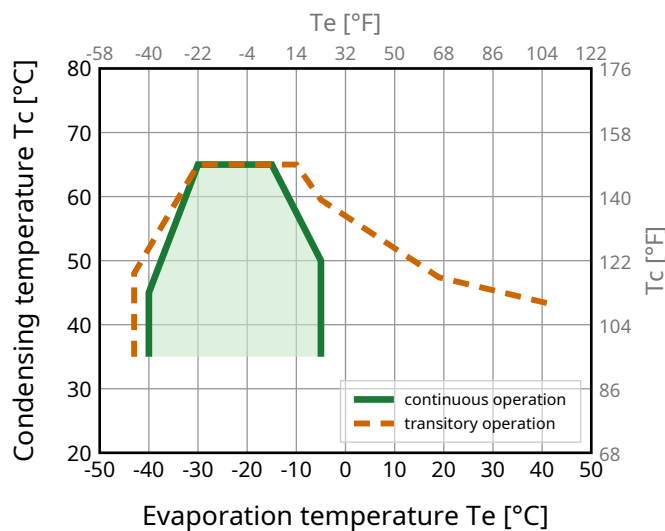
d cord relief 103N1010

Alternative components

a2 relay 117U7003

c start capacitor (80µF) 117U5015

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 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	613	2092	527	1.63	5.56	376	2.25	6.23	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	460	1568	395	1.27	4.33	362	2.19	5.76	CECOMAF LBP
-35 -31	40 104	20 68	40 104	354	1209	305	1.33	4.55	266	1.87	4.07	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	496	1693	427	1.37	4.66	363	2.20	6.89	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	661	2257	569	1.92	6.54	345	2.13	6.72	AHAM LBP
-25 -13	45 113	32 89.6	45 113	536	1830	461	1.57	5.35	342	2.12	6.08	opt LBP

Performance Tables

R290, 220 V/50 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	259	883	223	1.11	3.78	234	1.78	2.91
-35	-31	339	1156	291	1.25	4.28	270	1.89	3.82
-30	-22	430	1468	370	1.41	4.79	306	2.00	4.86
-25	-13	536	1830	461	1.57	5.35	342	2.12	6.08
-20	-4	662	2257	569	1.75	5.96	379	2.26	7.53
-15	5	809	2761	696	1.94	6.62	417	2.41	9.25
-10	14	984	3356	846	2.15	7.32	458	2.58	11.29
-5	23	1188	4053	1022	2.36	8.06	503	2.78	13.72

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

-40	-40	216	736	186	0.91	3.09	238	1.77	2.68
-35	-31	287	980	247	1.03	3.51	279	1.90	3.58
-30	-22	367	1253	316	1.15	3.91	320	2.04	4.59
-25	-13	460	1568	395	1.27	4.33	362	2.19	5.76
-20	-4	568	1939	489	1.40	4.77	406	2.36	7.15
-15	5	697	2377	599	1.54	5.25	453	2.55	8.81
-10	14	849	2896	730	1.69	5.76	503	2.76	10.79
-5	23	1028	3509	884	1.84	6.29	558	3.00	13.16