

Model
NL7.3CNX.2

Sales code:
105H6790

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.50 kg / 23.15lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NL7.3CNX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	CCC, UL
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
Long interval pull down	OK

Application Notes

- 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	1.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	7.00 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 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

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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°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
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	-
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	95-135 V
Starting torque	HST
Approvals	CCC, UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	125 µF
LRA (locked rotor amps / 4s/ U(N))	26.4 A
RLA (rated load amps / 1s/ U(N))	5.3 A
Cut in current (U(N))	26.4 A

Ambient/ machine room temperatures minimum /maximum

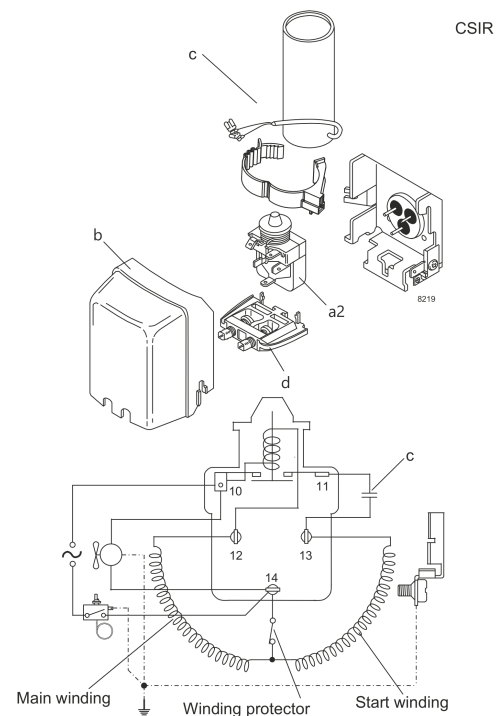
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

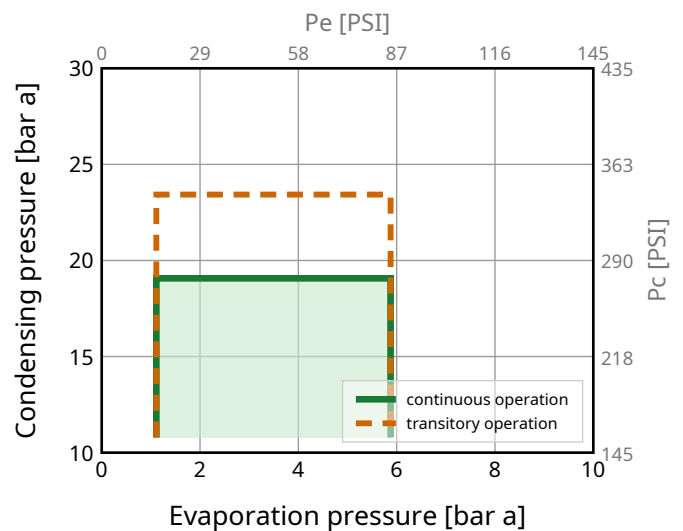
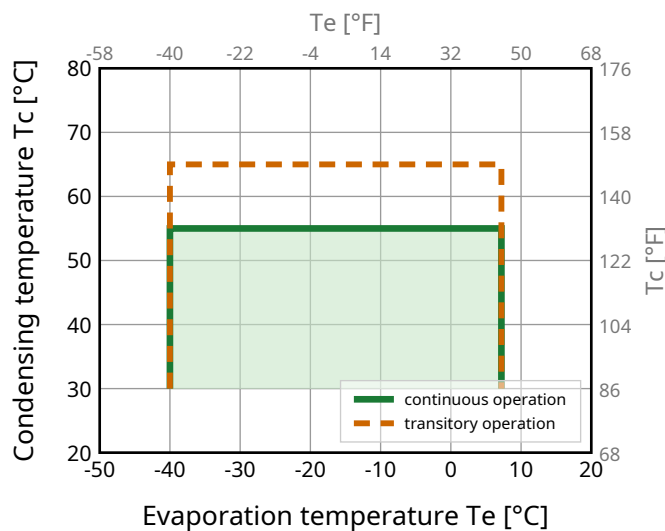
a2 relay 117U7013

c start capacitor (125µF, 6,3mm) 117U5035

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



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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	ṁ	
[°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	423	1443	364	1.44	4.91	294	3.82	4.29	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	315	1074	271	1.11	3.79	283	3.75	3.94	CECOMAF LBP
-35 -31	40 104	20 68	40 104	231	787	198	1.01	3.45	228	3.41	2.65	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	768	2621	661	1.96	6.68	392	4.54	8.80	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	607	2071	522	1.62	5.52	375	4.41	7.72	CECOMAF MBP
-10 14	45 113	20 68	45 113	680	2321	585	1.95	6.64	350	4.22	8.37	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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	178	608	153	0.88	2.99	204	3.29	2.00
-30	-22	290	988	249	1.14	3.89	254	3.55	3.27
-20	-4	464	1584	399	1.53	5.22	304	3.88	5.28
-10	14	707	2413	608	2.02	6.90	350	4.22	8.12
0	32	1024	3494	881	2.62	8.95	390	4.53	11.91
7.2	45	1300	4437	1118	3.13	10.69	415	4.70	15.30

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

-40	-40	160	545	137	0.84	2.88	190	3.24	1.99
-30	-22	249	849	214	0.99	3.37	252	3.56	3.11
-20	-4	396	1351	341	1.26	4.30	314	3.96	4.99
-10	14	607	2071	522	1.62	5.52	375	4.41	7.72
0	32	887	3026	763	2.06	7.01	432	4.85	11.44
7.2	45	1134	3869	975	2.42	8.25	469	5.13	14.81