Technical Data Compressor

SECOP

Model

Designation	**NL8.4CNX.2**	**115V/60Hz 1~**	Sales code:	**105H6092**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	8,35cm³ / 0,51cu.in
Oil quantity	268cm³ / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,5kg / 23,1lbs		
Motor protection	1# internal		
Winding resistance main	1,3Ω (at 25°C)		
Winding resistance aux	7Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		

General - Configurations with NL8.4CNX.2

	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	95-135V
Approvals	UL,
Starting torque	HST
Note	- / -

Applications with NL8.4CNX.2

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

Electrical data - Configurations with NL8.4CNX.2

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	125µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	26,4A
RLA (rated load amps / 1s/ $U_{(N)}$)	5,3A
Cut in current ($U_{(N)}$)	26,4A

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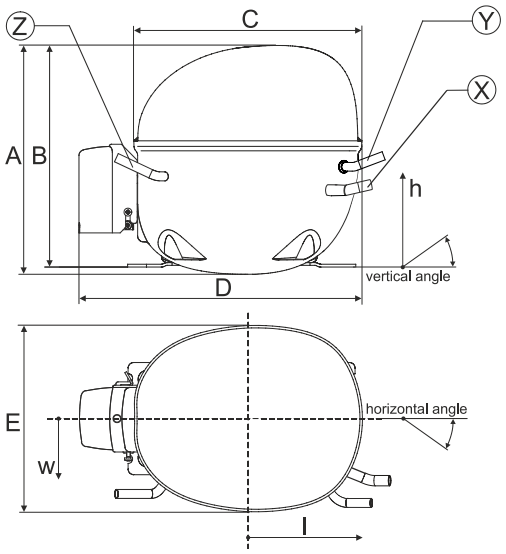
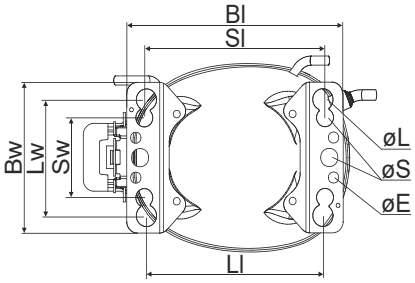
Compressor dimensions

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]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	35°	155°
Position l/h/w	[mm]	126/76/78	133/103/54	-107/94/72
	[in]	4,9/3/3,1	5,2/4/2,1	-4,2/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

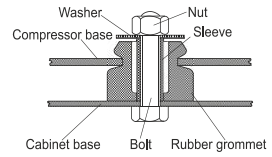


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38

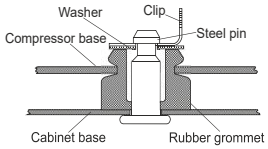
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
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	
Bolt joint | ø1/4" | ø19mm	118-1949	
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Application notes

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

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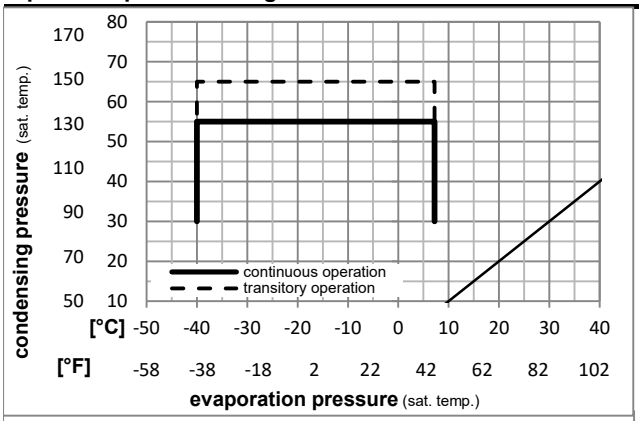
Configuration

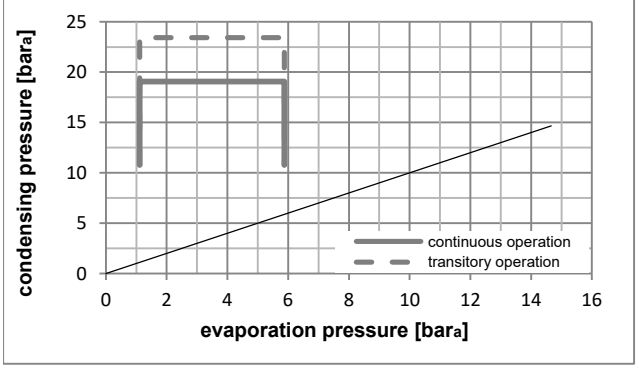
Motor configuration	CSIR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-135V
Starting torque	HST
Approvals	UL
	0

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

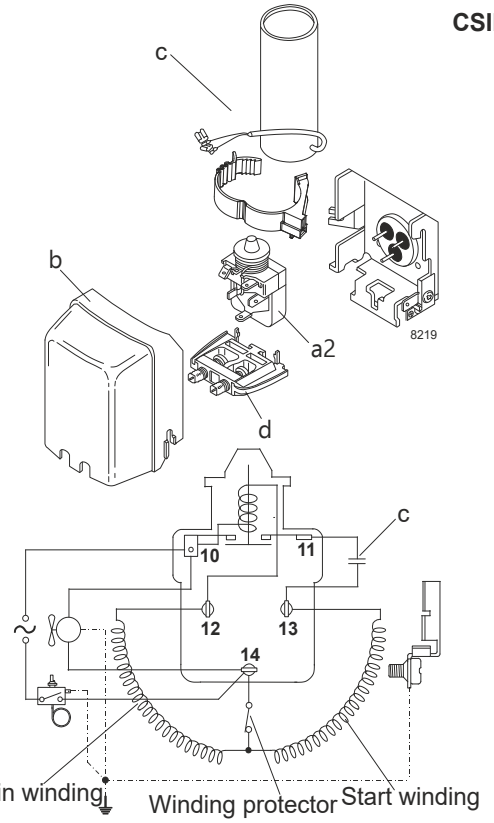
Operation pressure range





Electrical accessories / wiring diagram

CSIR



Components

a2	relay	117U7013
c	start capacitor (125µF, 6,3mm)	117U5035
b	plastic cover	103N2011
d	cord relief	103N1010

Model

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Optimization + standard conditions R290, 115V/60Hz, CSIR, fan 3m/s, UL,

	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]	-23	54	32	32	485,5	1658	417,8	1,47	5,01	1,26	331,0	4,06	4,92	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	363,4	1241	312,7	1,14	3,89	0,98	319,4	3,98	4,52	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	274,0	936	235,8	1,12	3,82	0,96	244,7	3,52	3,13	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	871,4	2976	749,9	1,92	6,55	1,65	454,3	4,98	9,94	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	690,3	2357	594,1	1,60	5,46	1,38	431,8	4,80	8,73	**cecomaf MBP**
[°F]	14	131	90	131										
[°C]	-10	45	20	45	776,9	2653	668,6	1,95	6,65	1,68	399,1	4,55	9,54	**EN12900 MBP**
[°F]	14	113	68	113										

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

	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]	-34	-30	270,9	925	233,1	1,08	3,69	0,93	250,6	3,56	3,04
cond. pressure	-34	-30	270,9	925	233,1	1,08	3,69	0,93	250,6	3,56	3,04
pc= 45/113	-23	-10	466,5	1593	401,5	1,47	5,02	1,26	317,7	3,97	5,27
return gas temp.	-15	5	664,2	2268	571,6	1,80	6,14	1,55	369,1	4,33	7,56
RGT= 32/90	-4	25	1016,1	3470	874,5	2,34	8,00	2,02	433,8	4,82	11,72
liquid temp	0	32	1167,4	3987	1004,6	2,57	8,78	2,21	454,2	4,98	13,54
Tliq= 45/113	7,2	45	1492,3	5096	1284,3	3,06	10,46	2,64	487,4	5,26	17,53
[°C / °F]	-34	-30	222,4	759	191,4	0,88	3,01	0,76	252,5	3,57	2,75
cond. pressure	-34	-30	222,4	759	191,4	0,88	3,01	0,76	252,5	3,57	2,75
pc= 55/131	-23	-10	392,7	1341	338,0	1,18	4,04	1,02	331,7	4,07	4,90
return gas temp	-15	5	564,3	1927	485,6	1,43	4,89	1,23	394,3	4,52	7,09
RGT= 32/90	-4	25	871,8	2977	750,3	1,83	6,25	1,58	476,3	5,16	11,13
liquid temp	0	32	1004,9	3432	864,8	2,00	6,82	1,72	503,5	5,38	12,91
Tliq= 55/131	7,2	45	1292,5	4414	1112,4	2,35	8,02	2,02	550,3	5,78	16,84